



SERVICE MANUAL

This Service Manual is for the
LED22-T800M (A0C76EP) / LED22-H800M (A0C77EP) model.
For the LED22-T800M (A0C76EP) / LED22-H800M (A0C77EP) model, the
letter (A0C76EP) / (A0C77EP) is printed on the Serial Number Label on the
back of the unit. Refer to the Serial Number Label below.

Serial No. Label



"A0C76EP"

Serial No. Label



"A0C77EP"

22" COLOR LCD TELEVISION

LED22-T800M

LED22-H800M



22" COLOR LCD TELEVISION

LED22-T800M / LED22-H800M

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The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

SPECIFICATIONS

< TUNER >

VHS/UHF Input ----- 75Ω unbal., IEC Connector
Center IF ----- SECAM-L 38.9MHz, SECAM-L' 33.9MHz

Description	Condition	Unit	Nominal	Limit
1. Video S/N	80	dB	---	40
2. Audio S/N	---	dB	---	40/40

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal	pixels	1366	---
	Vertical	pixels	768	---
2. Viewing Angle	Horizontal	°	---	-85 to 85
	Vertical	°	---	-80 to 80

<DVB-T>

Description	Condition	Unit	Nominal	Limit
1. RECEIVED FREQ.RANGE (-60dBm, 45ch.) *1, *2	+	kHz	1000	500
	-	kHz	900	167
2. INPUT DYNAMIC RANGE (mix./max)	①:*1 VHF HIGH 8ch. UHF 45ch.	dBuV dBuV	25/101 25/101	28/98 29/98
	②:*2 VHF HIGH 8ch. UHF 45ch.	dBuV dBuV	18/101 18/101	21/98 21/98
3. C/N PERFORMANCE (-50dBm)	①:*1 VHF HIGH 8ch. UHF 45ch.	dB dB	15 15	18 18
	②:*2 VHF HIGH 8ch. UHF 45ch.	dB dB	11 11	14 14
4. MULTIPATH (-50dBm)	UHF 45ch.			
a. Performance with short delay echoes	①:*3	dB	18.7	23
	②:*4	dB	14.0	20
b. Performance with long delay echoes	①:*3	dB	19.1	23
	②:*4	dB	13.0	18

*1: modulation parameters = [8k 64QAM CR=2/3 GI=1/32]

*2: modulation parameters = [8k 16QAM CR=3/4 GI=1/8]

*3: modulation parameters = [2k 64QAM CR=2/3 GI=1/32]

*4: modulation parameters = [2k 16QAM CR=3/4 GI=1/32]

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal	%	5	---
	Vertical	%	5	---
2. Color Temperature	AT 70% WHITE FIELD	°K	12000	---
	x		0.272	±0.005
	y		0.278	±0.005
3. Resolution	Horizontal	line	400	---
	Vertical	line	350	---
4. HOME/RETAIL BRIGHTNESS Ratio	AT 100% WHITE FIELD	%	60<	---

< AUDIO >

All items are measured across 16 Ω load at speaker output terminal.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	3.0/3.0	2.0/2.0
2. Audio Distortion	500mW: Lch/Rch	%	1.5/1.5	3.0/3.0
3. Audio Freq. Response	−6dB: Lch	Hz	70 to 8 k	---
	−6dB: Rch	Hz	70 to 8 k	---
4. Audio S/N	Lch/Rch	dB	---	45/45

Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should a unit fail to meet limit specifications.

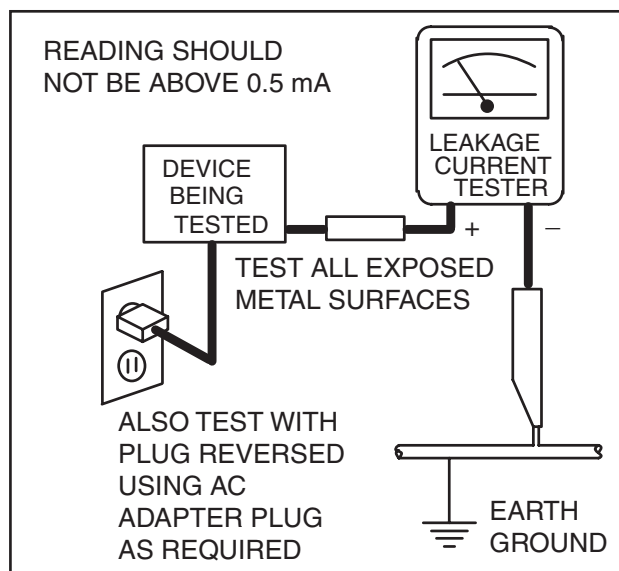
IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer**, always make a safety check of the entire instrument, including, but not limited to, the following items:
 - a. Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
 - b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the LCD module and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
 - c. **Antenna Cold Check** - With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
 - d. **Leakage Current Hot Check** - With the instrument completely reassembled, plug the AC line cord directly into a 230 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American

National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.




ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the LCD module.
3. **Design Alteration Warning** - Do not alter or add to the mechanical or electrical design of this LCD TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. Hot Chassis Warning -

- a.** Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
 - b.** Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
 - c.** Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
- 5.** Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
- 6.** Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

- 7. Product Safety Notice -** Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc.. Parts that have special safety characteristics are identified by a  on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- A.** Parts identified by the ⚠ symbol are critical for safety.
Replace only with part number specified.
- B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C.** Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- D.** Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulators for transistors.
- E.** When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- F.** Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)
- G.** Check that replaced wires do not contact sharp edged or pointed parts.
- H.** When a power cord has been replaced, check that 5~6 kg of force in any direction will not loosen it.
- I.** Also check areas surrounding repaired locations.
- J.** Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K.** When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.
- L.** When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
220 to 240 V	$\geq 3\text{mm}(d)$ $\geq 8\text{mm}(d')$

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z . See Fig. 2 and following table.

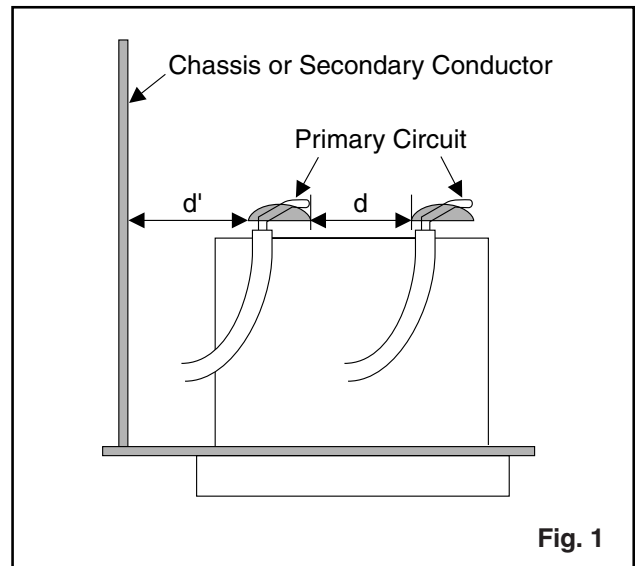


Fig. 1

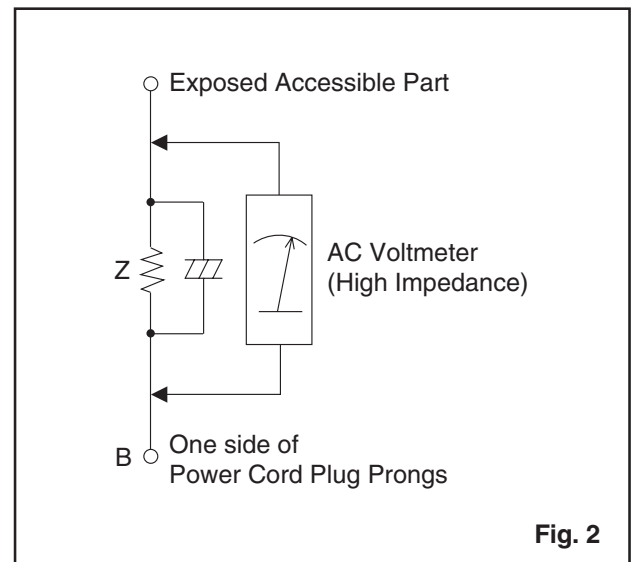


Fig. 2

Table 2: Leakage current ratings for selected areas

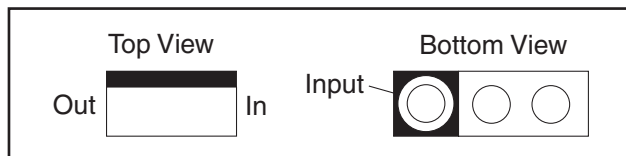
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	RF or Antenna terminals
	50k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

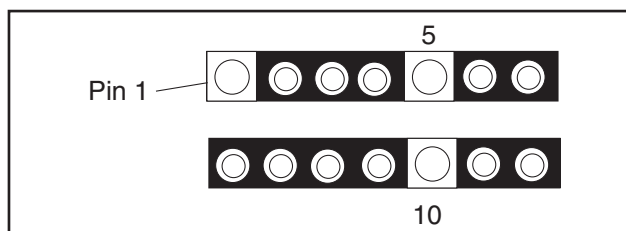
STANDARD NOTES FOR SERVICING

Circuit Board Indications

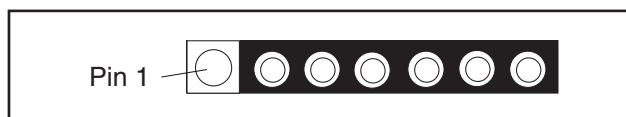
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

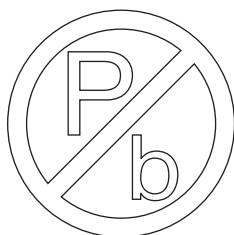


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



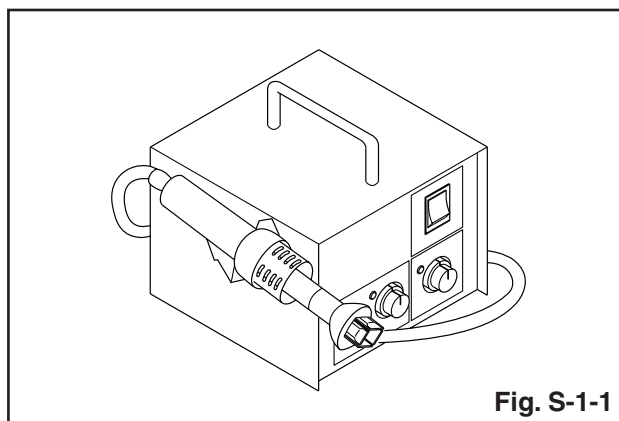
Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

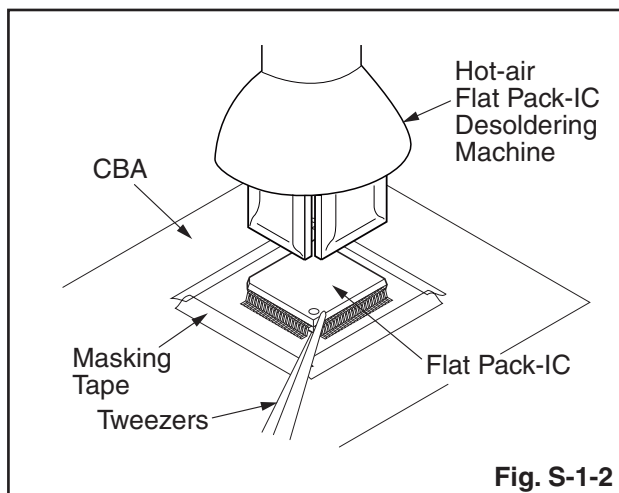
1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)



2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

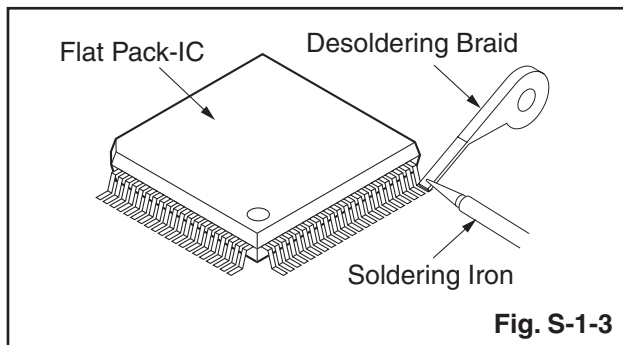
CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

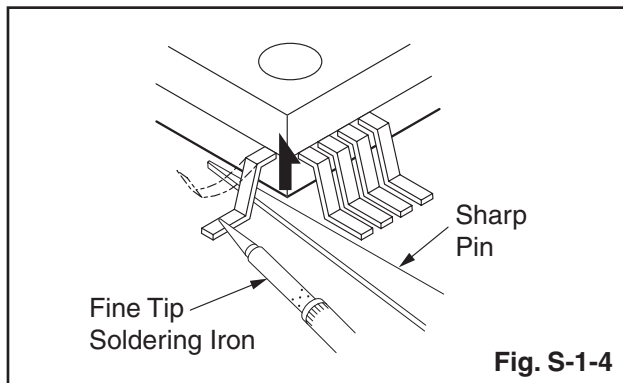


With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

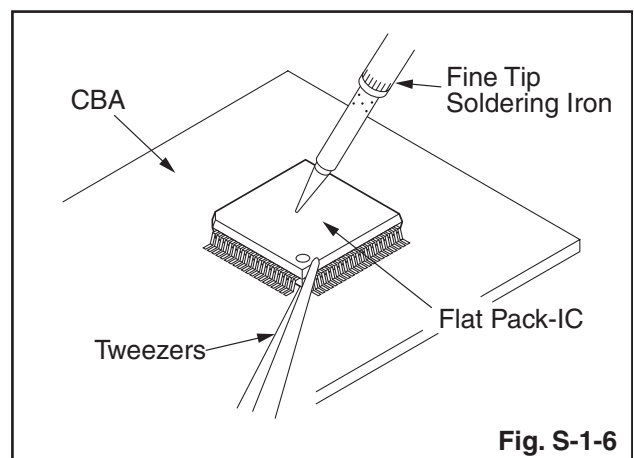
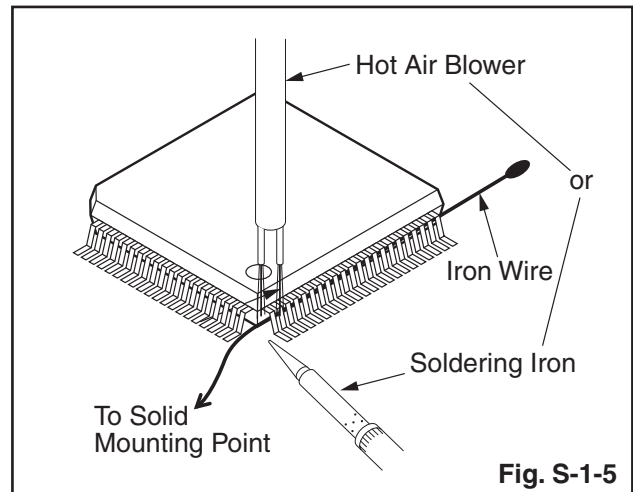


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

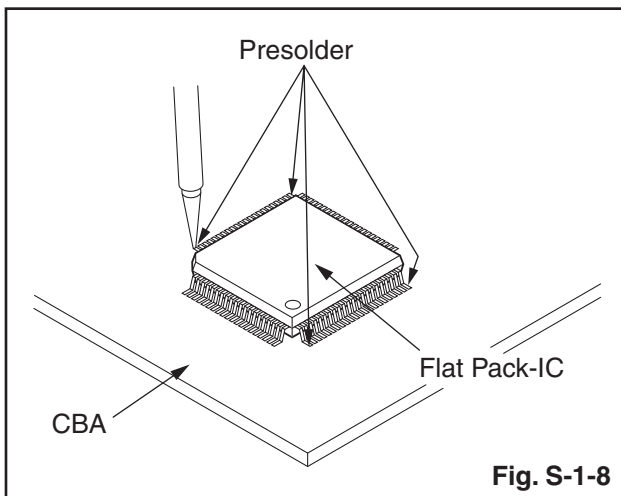
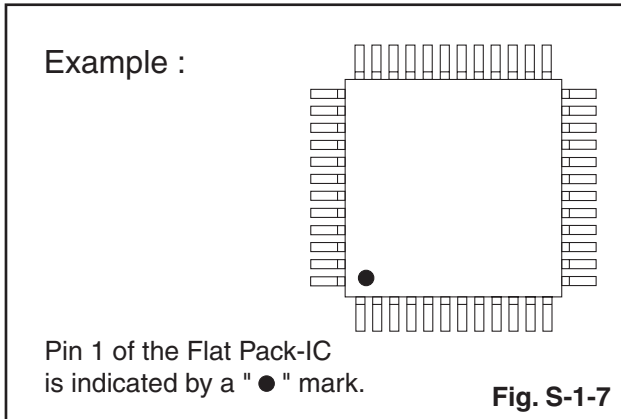
1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.



2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the pin 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.



Instructions for Handling Semi-conductors

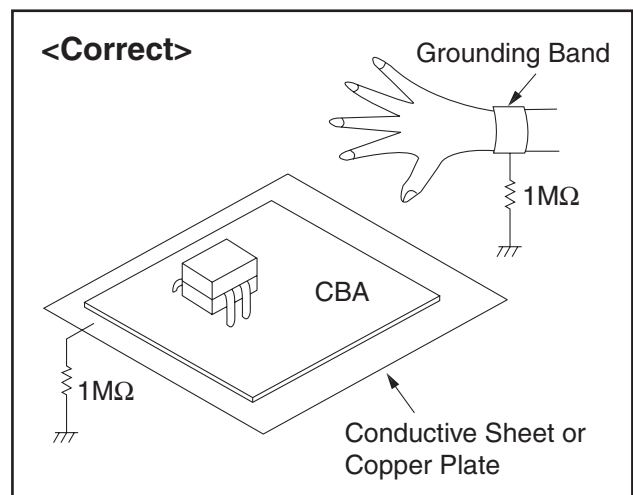
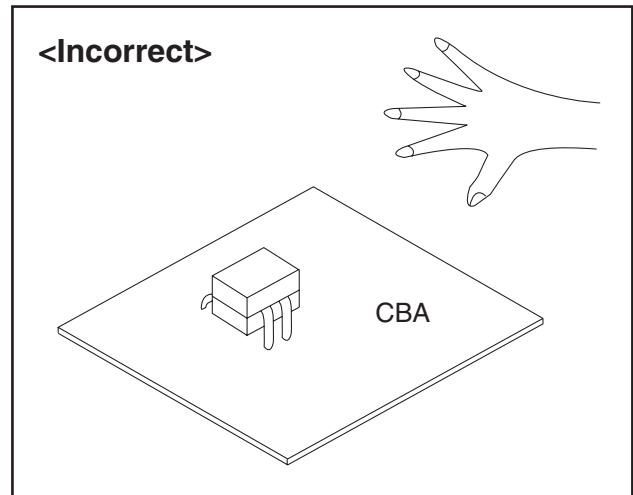
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band ($1\text{ M}\Omega$) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

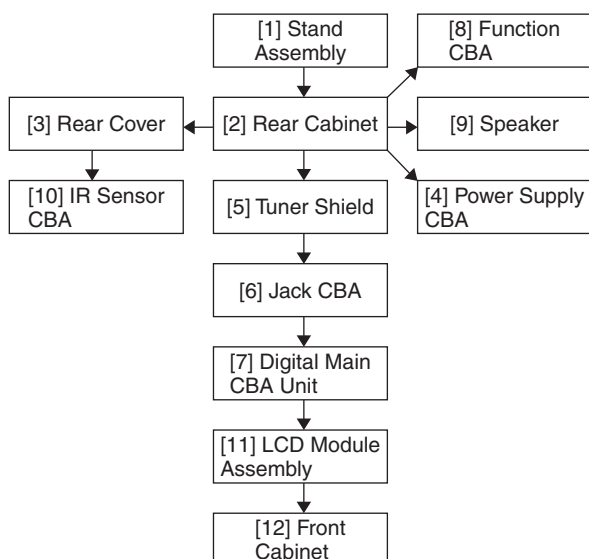
Be sure to place a conductive sheet or copper plate with proper grounding ($1\text{ M}\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.



CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts and the CBA in order to gain access to items to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



Step/ Loc. No.	Part	Fig. No.	Removal	Note
[11]	LCD Module Assembly	D2	Separation Sheet	---
[12]	Front Cabinet	D2	-----	---
(1)	(2)	(3)	(4)	(5)

Note:

- (1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.
- (2) Parts to be removed or installed.
- (3) Fig. No. showing procedure of part location
- (4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
N = Nut, L = Locking Tab, S = Screw,
H = Hex Screw, CN = Connector
e.g. 2(S-2) = two Screws of (S-2),
2(L-2) = two Locking Tabs of (L-2)
- (5) Refer to the following "Reference Notes in the Table."

2. Disassembly Method

Step/ Loc. No.	Part	Fig. No.	Removal	Note
[1]	Stand Assembly	D1	2(S-1)	---
[2]	Rear Cabinet	D1	8(S-2), 2(S-3), 2(S-4), 4(S-5), 8(L-1)	---
[3]	Rear Cover	D1	2(S-6), Stand Bracket	---
[4]	Power Supply CBA	D2 D3	4(S-7), CN501, CN502, CN503, CN701	---
[5]	Tuner Shield	D2	(S-8)	---
[6]	Jack CBA	D2 D3	7(S-9), CN103, CN801, CN903, CN3701, CN3702, CN3703, CN3704	---
[7]	Digital Main CBA Unit	D2 D3	2(S-10), 7(S-11), 2(H-1), CN3901, Jack Holder, Shield Box	---
[8]	Function CBA	D2 D3	2(S-12), Function Knob	---
[9]	Speaker	D2	Speaker Holder	---
[10]	IR Sensor CBA	D2 D3	Sensor LED Lens	---

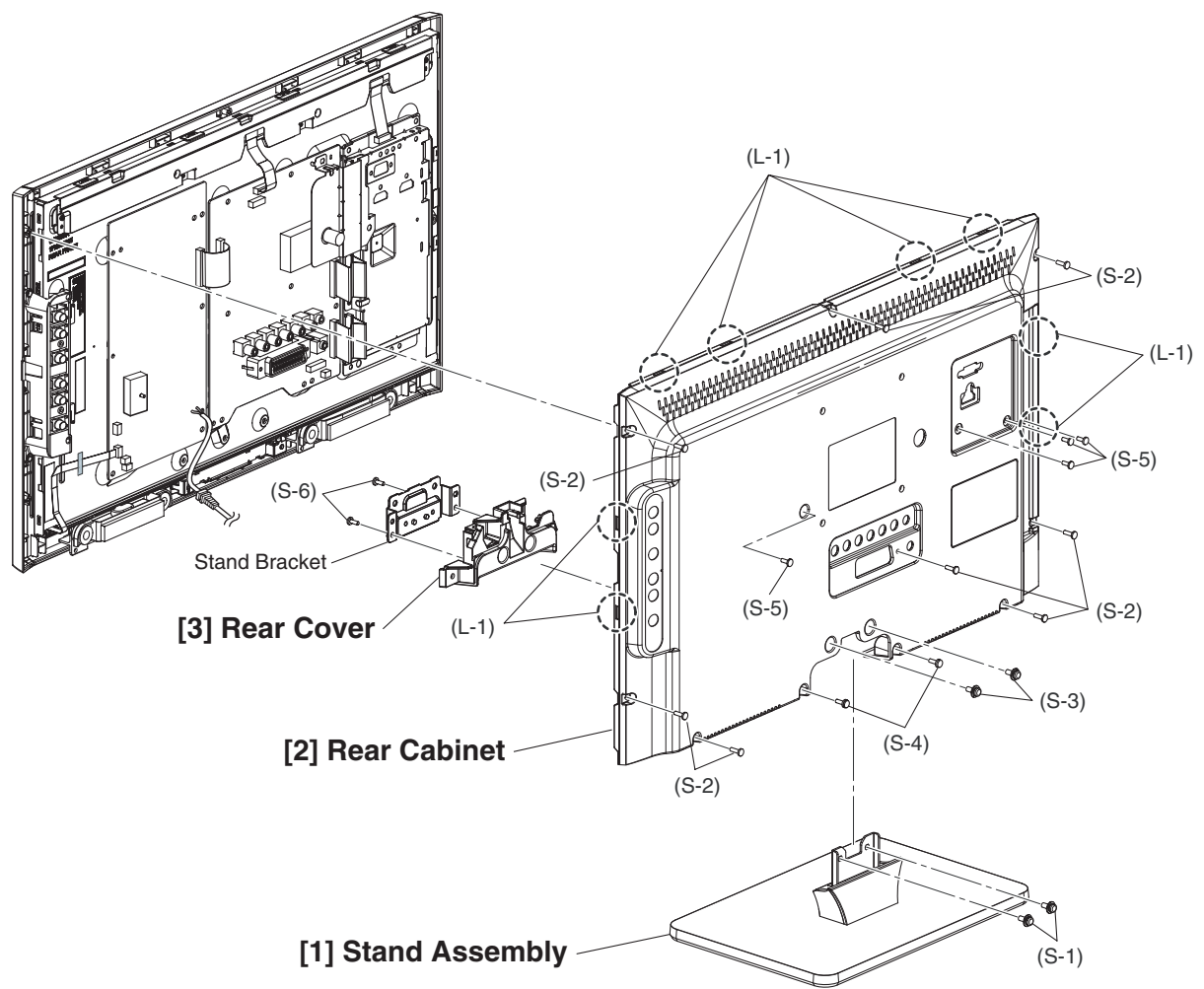


Fig. D1

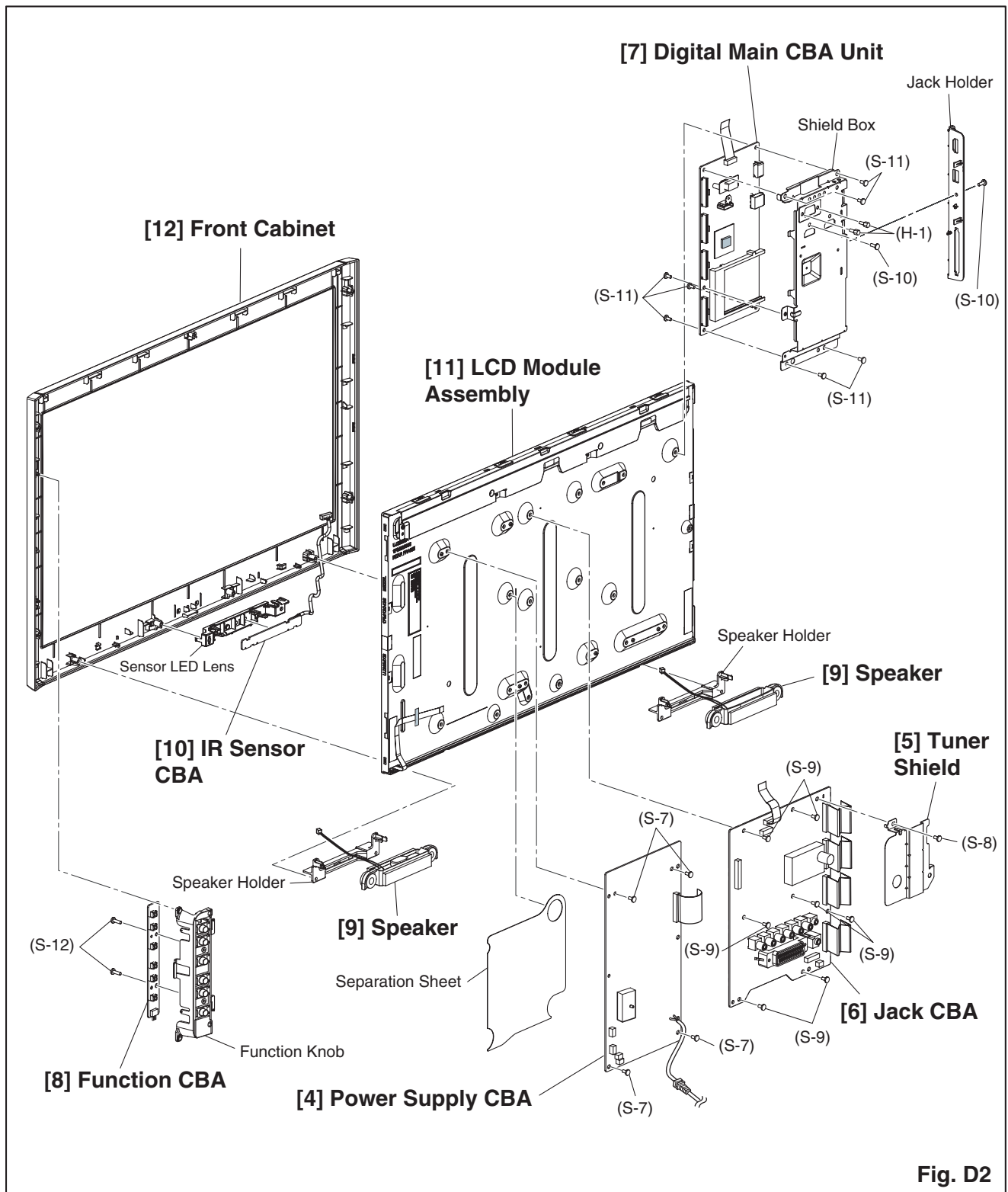


Fig. D2

TV Cable Wiring Diagram

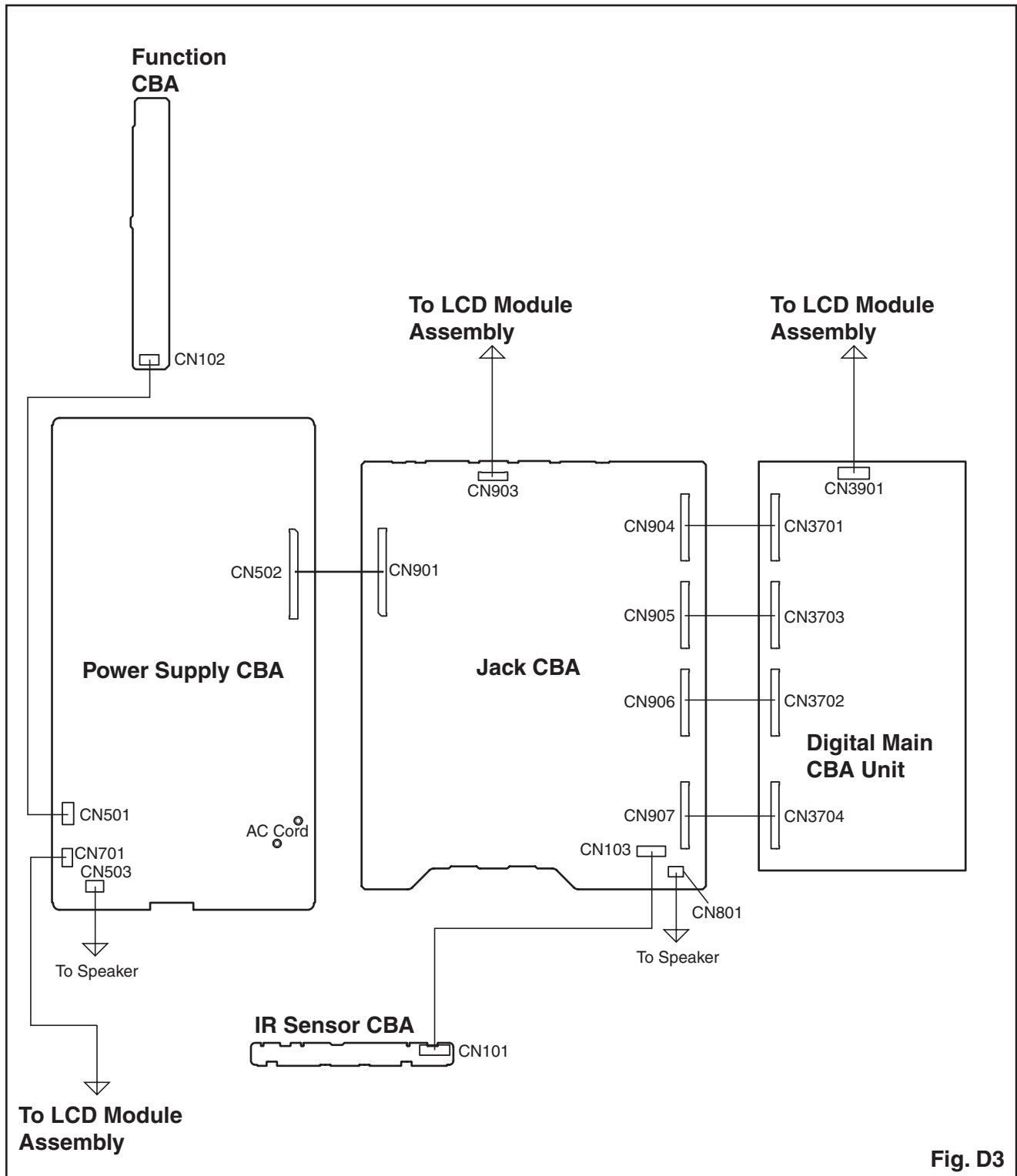


Fig. D3

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: “CBA” is abbreviation for “Circuit Board Assembly.”


Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. NTSC Pattern Generator (Color Bar W/White Window, Red Color, Dot Pattern, Gray Scale, Monoscope, Multi-Burst)
2. Remote control unit
3. Color Analyzer

How to set up the service mode:

Service mode:

1. Turn the power on.
2. Press [MENU] button to display Setup menu.
3. Select “Software” in “OTHERS” and press [OK] button.
4. Press [0], [4], [2], [5], [7], [4] and [] buttons on the remote control unit in this order. The following screen appears.

“*” differs depending on the models.

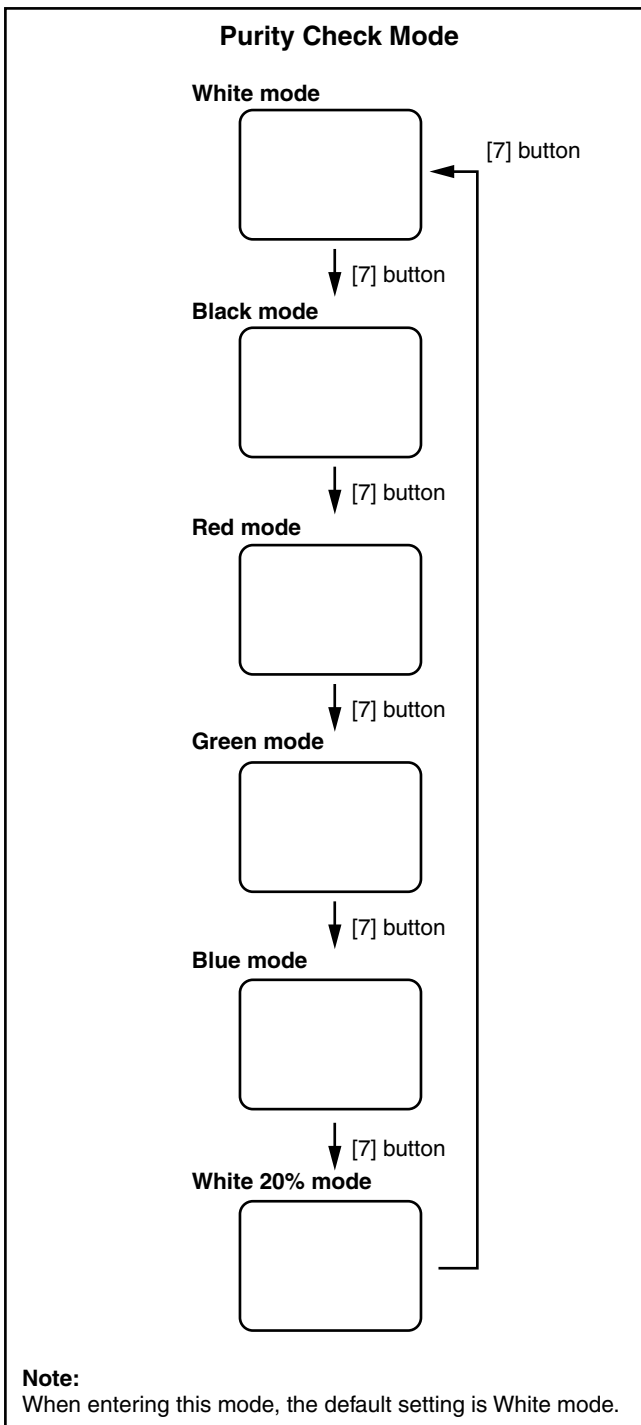
```
Code : *****_**_*_*
Pic code : ** ***** ** *
Inch : *** ***** - - -
MIPS : ****
```

Safety : Safety_Non

1. Purity Check Mode

This mode cycles through full-screen displays of red, green, blue, and white to check for non-active pixels.

1. Enter the Service mode.
2. Each time the [7] button on the remote control unit is pressed, the display changes as follows.

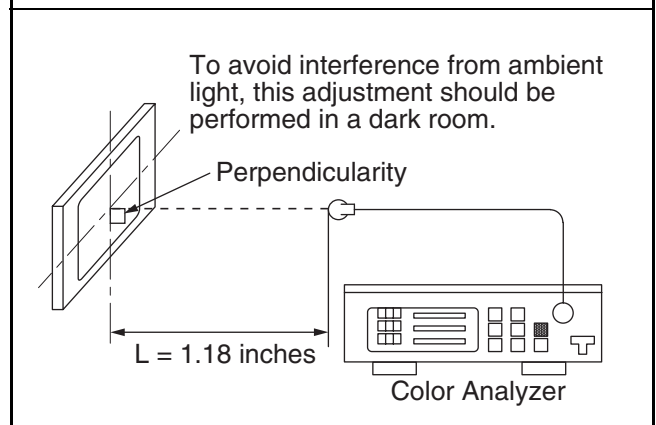


3. To cancel or to exit from the Purity Check Mode, press [BACK] button.

2. VCOM Adjustment

Test Point	Adj. Point
Screen	[P ^ / ∨] buttons
M. EQ.	Spec.
Color analyzer	See below

Figure



1. Operate the unit for more than 20 minutes.
2. Set the color analyzer at the zero point calibration and bring the optical receptor pointing at the center of the LCD-Panel at a distance of 3cm away from the LCD-Panel surface.
Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
3. Enter the Service mode.
4. To enter the "VCOM-2 adjustment mode", press [3] button on the remote control unit.
To enter the "VCOM-1 adjustment mode", press [2] button on the remote control unit.
5. Press [P ^ / ∨] buttons on the remote control unit so that the color analyzer value becomes minimum.
6. To cancel or to exit from the VCOM Adjustment, press [BACK] button.

The White Balance Adjustment should be performed when replacing the LCD Panel or Digital Main CBA.

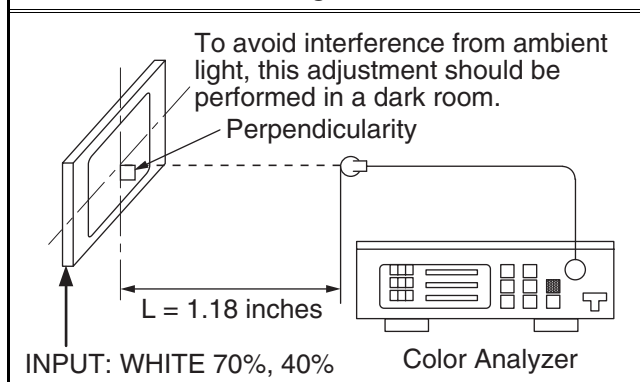
3. White Balance Adjustment

Purpose: To mix red and blue beams correctly for pure white.

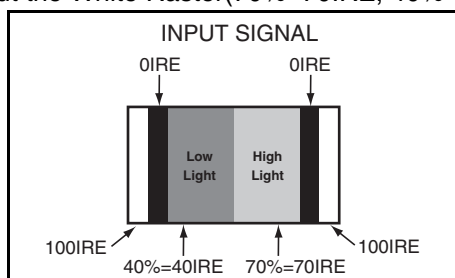
Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[P ^ / ∨] buttons	[VIDEO1] C/D	White Raster (APL 70%) or (APL 40%)
M. EQ.		Spec.	
Pattern Generator, Color analyzer		$x = 0.272 \pm 0.005$ $y = 0.278 \pm 0.005$	

Figure



1. Operate the unit for more than 20 minutes.
2. Input the White Raster(70%=70IRE, 40%=40IRE).



3. Set the color analyzer at the CHROMA mode and zero point calibration. Bring the optical receptor pointing at the center of the LCD-Panel at a distance of 3cm away from the LCD-Panel surface.
Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. Enter the Service mode. Press [▲] button on the remote control unit and select "C/D" mode.

5. **[CUTOFF]**
Press [1] button to select "COR" for Red Cutoff adjustment. Press [3] button to select "COB" for Blue Cutoff adjustment.
[DRIVE]
Press [4] button to select "DR" for Red Drive adjustment. Press [6] button to select "DB" for Blue Drive adjustment.
6. In each color mode, press [P ^ / ∨] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 12000°K ($x = 0.272$ / $y = 0.278 \pm 0.005$).
8. To cancel or to exit from the White Balance Adjustment, press [BACK] button.

HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

1. Turn the power on.
2. Enter the service mode. (Refer to page 5-1.)
 - To cancel the service mode, press [⏻] button on the remote control unit.
3. Press [i] button on the remote control unit to initialize the LCD television.
4. "INITIALIZED" will appear in the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is complete.

FIRMWARE RENEWAL MODE

Equipment Required

- a. USB storage device
- b. Remote Control Unit

Firmware Update Procedure

[Check the current version]

1. Press [MENU] button on the remote control unit to display the menu mode.
2. Press [▲] or [▼] to select "OTHERS", then press [OK] button.
3. Press [▲] or [▼] to select "Software", then press [OK] button.

The current FW version will be displayed.

[Preparation]

1. Prepare USB storage device.
2. Copy F/W-file (ecc file) to USB storage device.
Note: Make sure to use the blank USB Storage.
3. Rename the F/W-file's name.

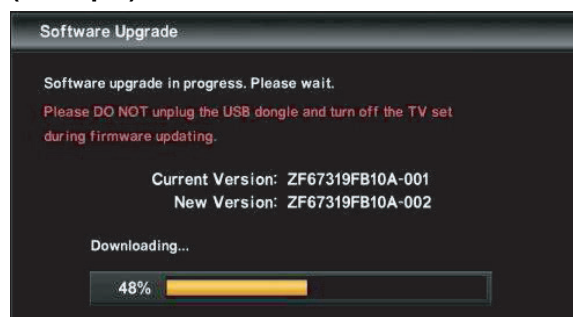
Step1. Add the "_F" at the end of the name.
(If the file name in USB says "ZF6731915NOS-030-05.ecc", the new file name should be "ZF6731915NOS-030-05_F.ecc".)

Step2. The 6th and 7th digit of the file name indicate the size of TV. If the size of your TV and the file name were not the same, you must change the file name.

[Update procedure]

1. Plug in the AC power cord.
2. Press [⏻] button on the remote control unit to turn off (standby).
3. Check "STAND BY" indicator (Red LED) lighting.
4. Insert USB storage device with F/W to TV set.
5. Press [⏻] button to turn on.
6. After approximately 70 seconds, the following will appear on the screen and the update begins automatically.

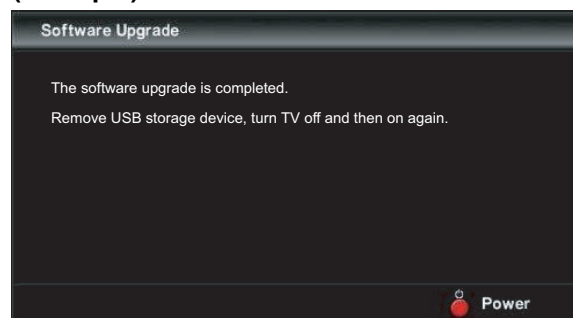
(Example)



Note: Do not turn off the TV set and do not remove the USB storage device while this procedure.

The update will be completed in about 2 minutes. And the following screen appears.

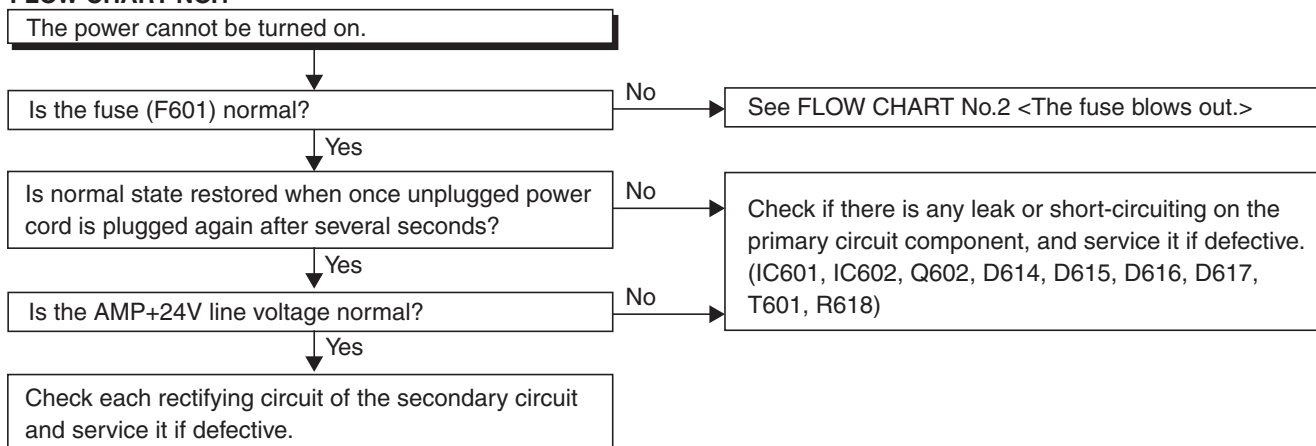
(Example)



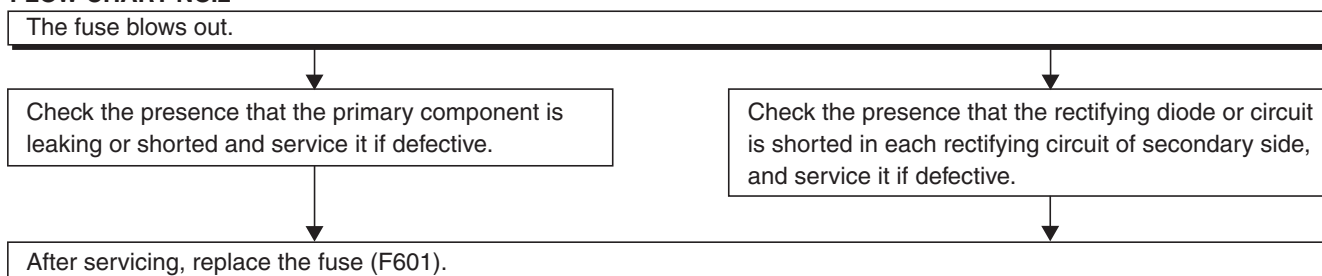
7. Press [⏻] button to turn off (standby).
8. Check "STAND BY" indicator (Red LED) lighting.
9. Remove USB storage device from TV set.
10. Press [⏻] button to turn on.

TROUBLESHOOTING

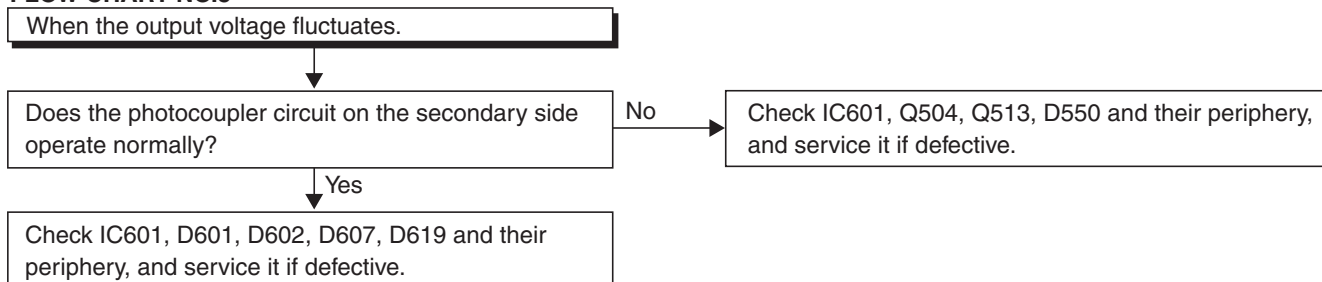
FLOW CHART NO.1



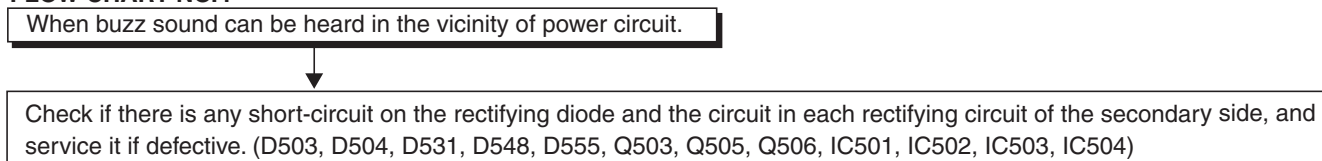
FLOW CHART NO.2

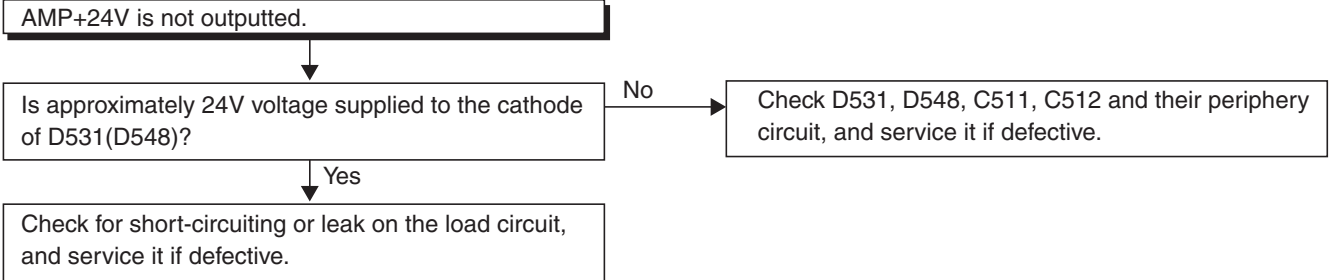
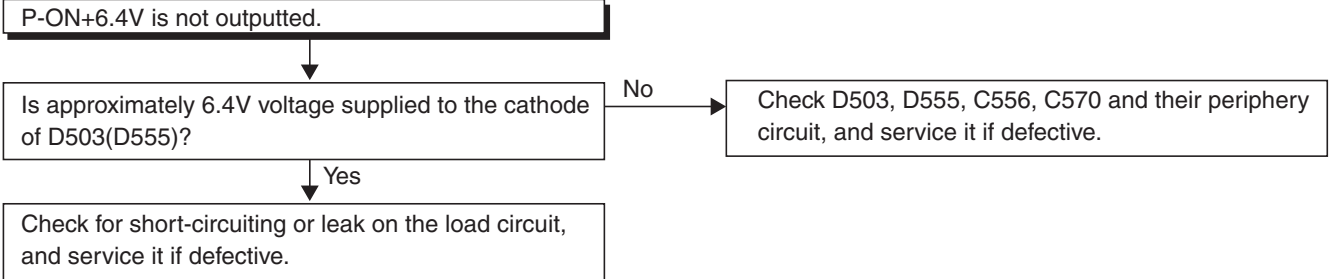
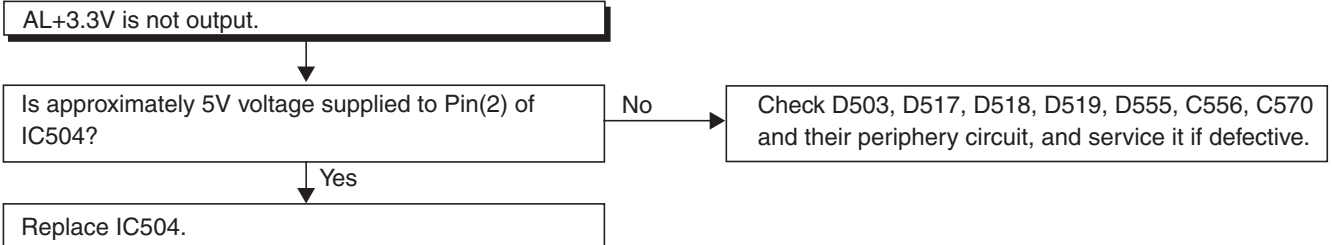
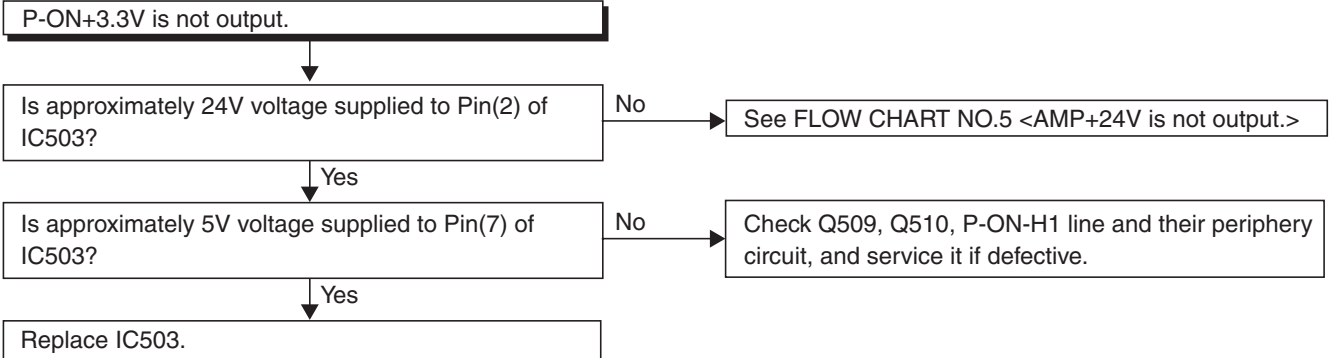
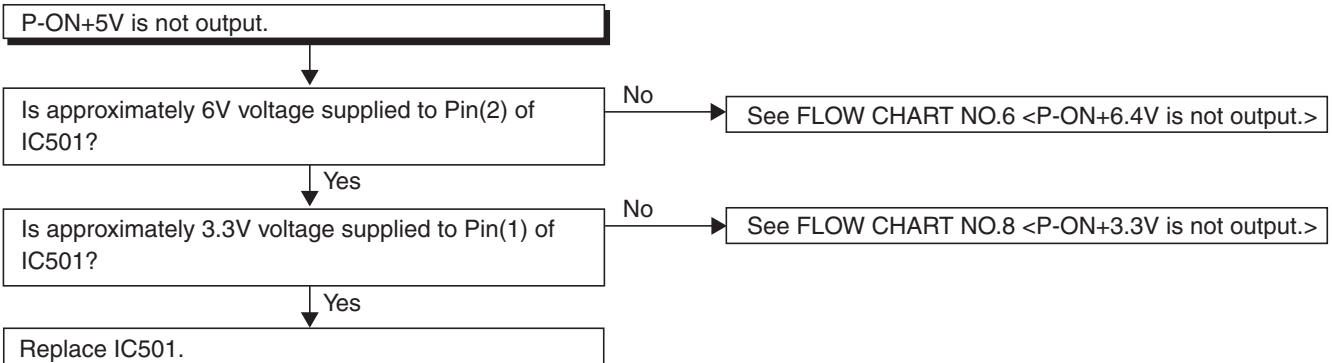


FLOW CHART NO.3

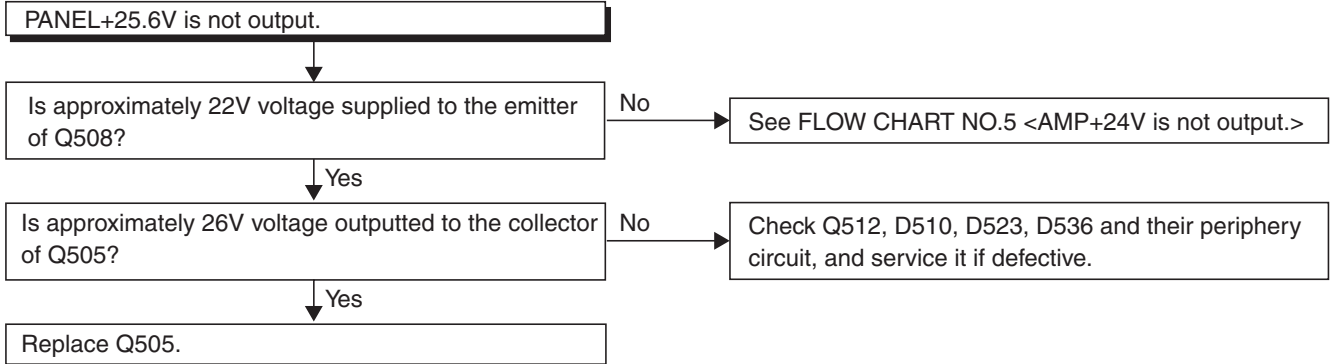


FLOW CHART NO.4

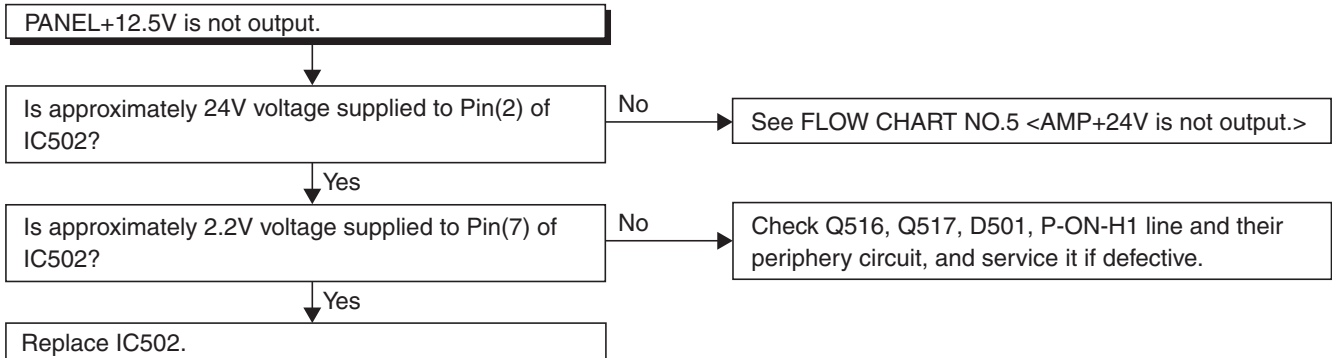


FLOW CHART NO.5**FLOW CHART NO.6****FLOW CHART NO.7****FLOW CHART NO.8****FLOW CHART NO.9**

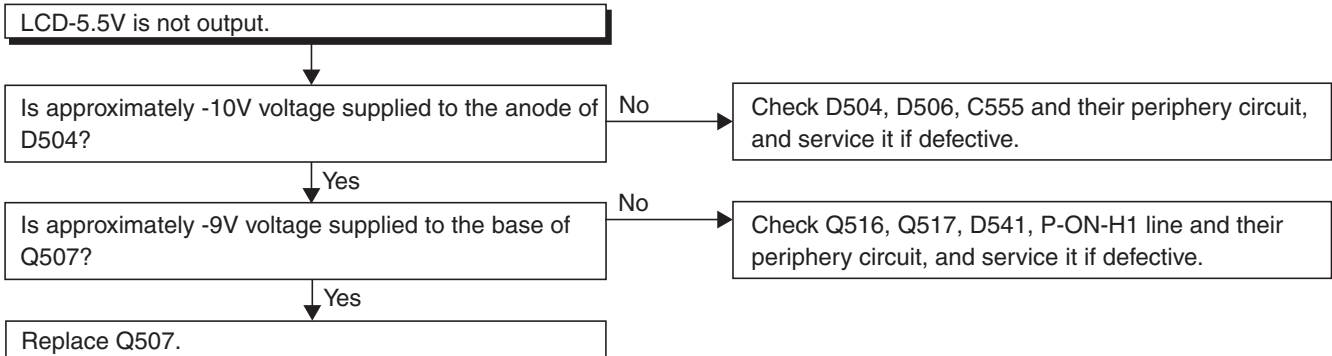
FLOW CHART NO.10

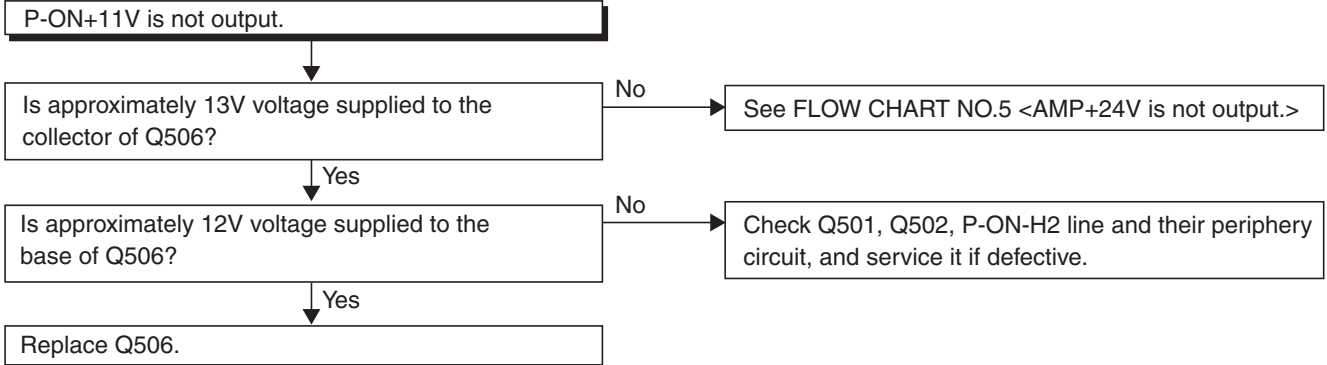
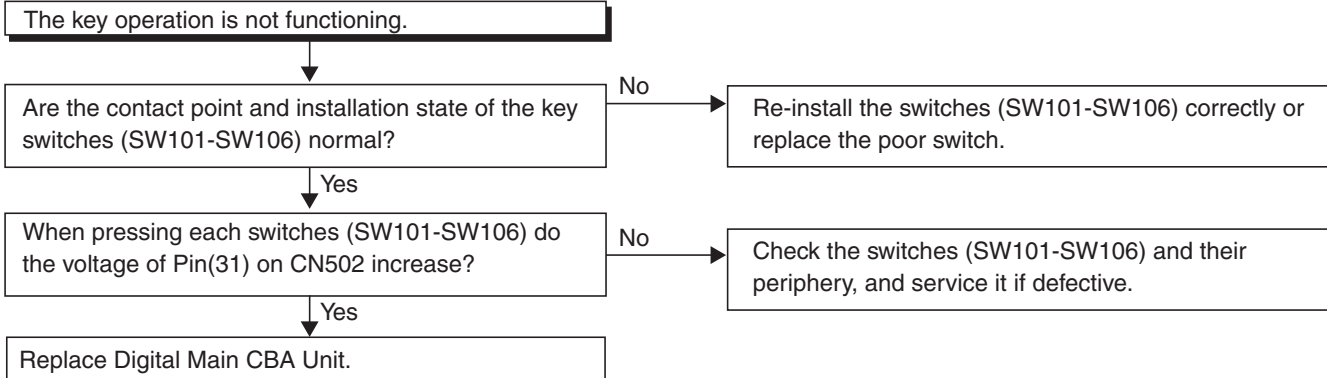
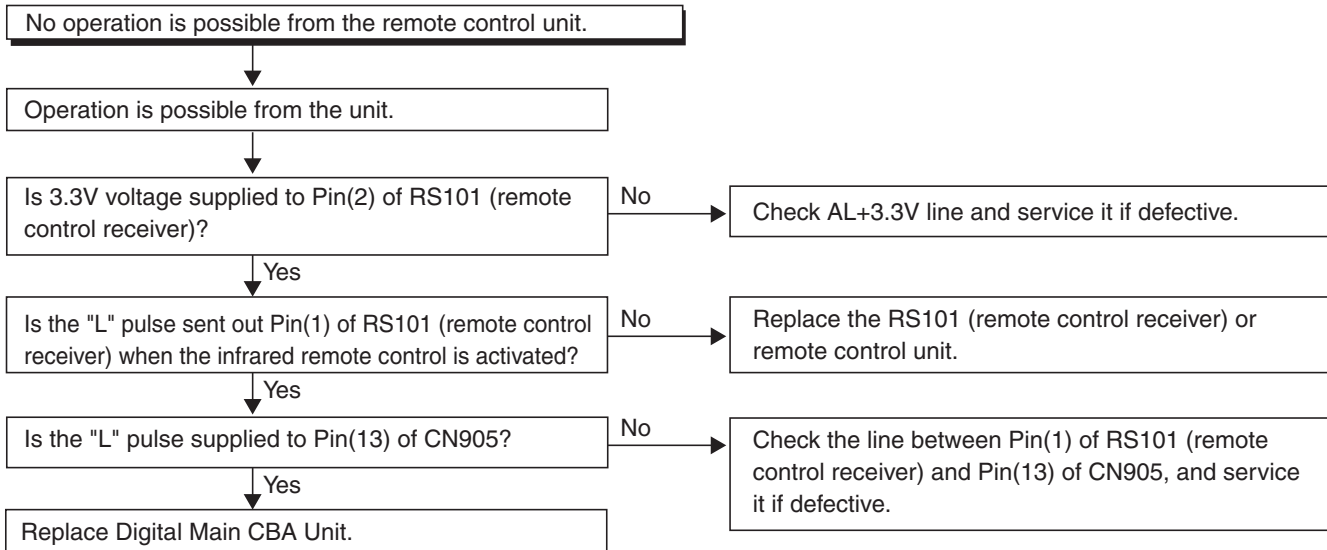


FLOW CHART NO.11



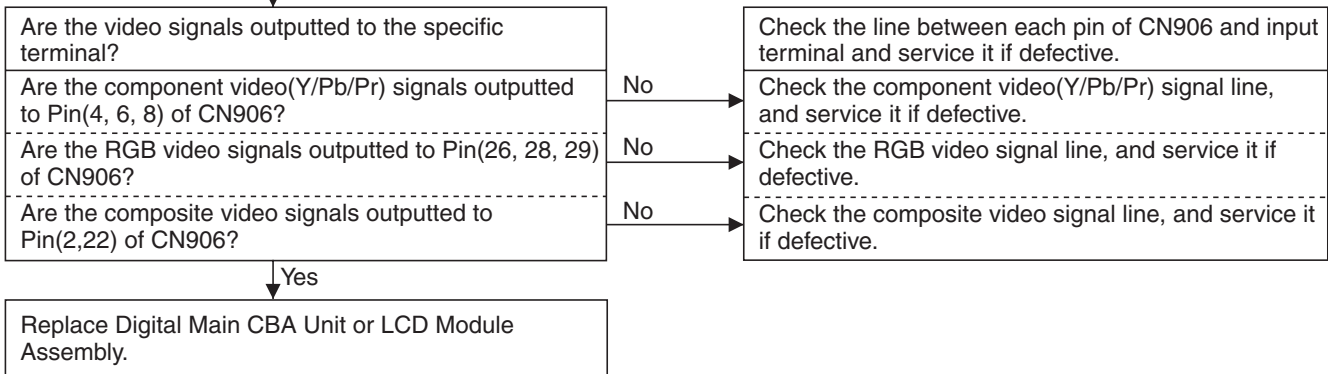
FLOW CHART NO.12



FLOW CHART NO.13**FLOW CHART NO.14****FLOW CHART NO.15**

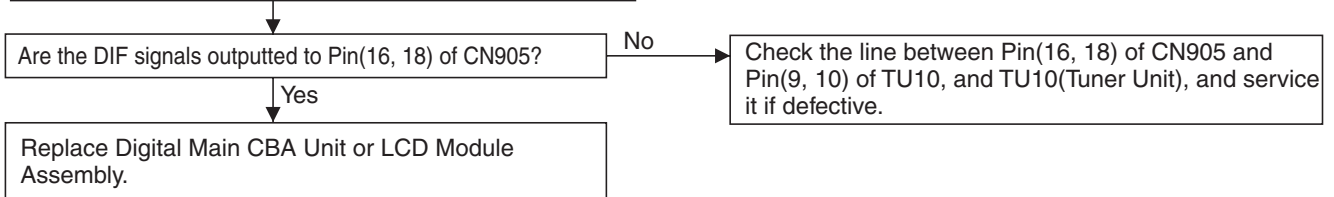
FLOW CHART NO.16

Picture does not appear normally. (Video input/Y/Pb/Pr input/RGB input)



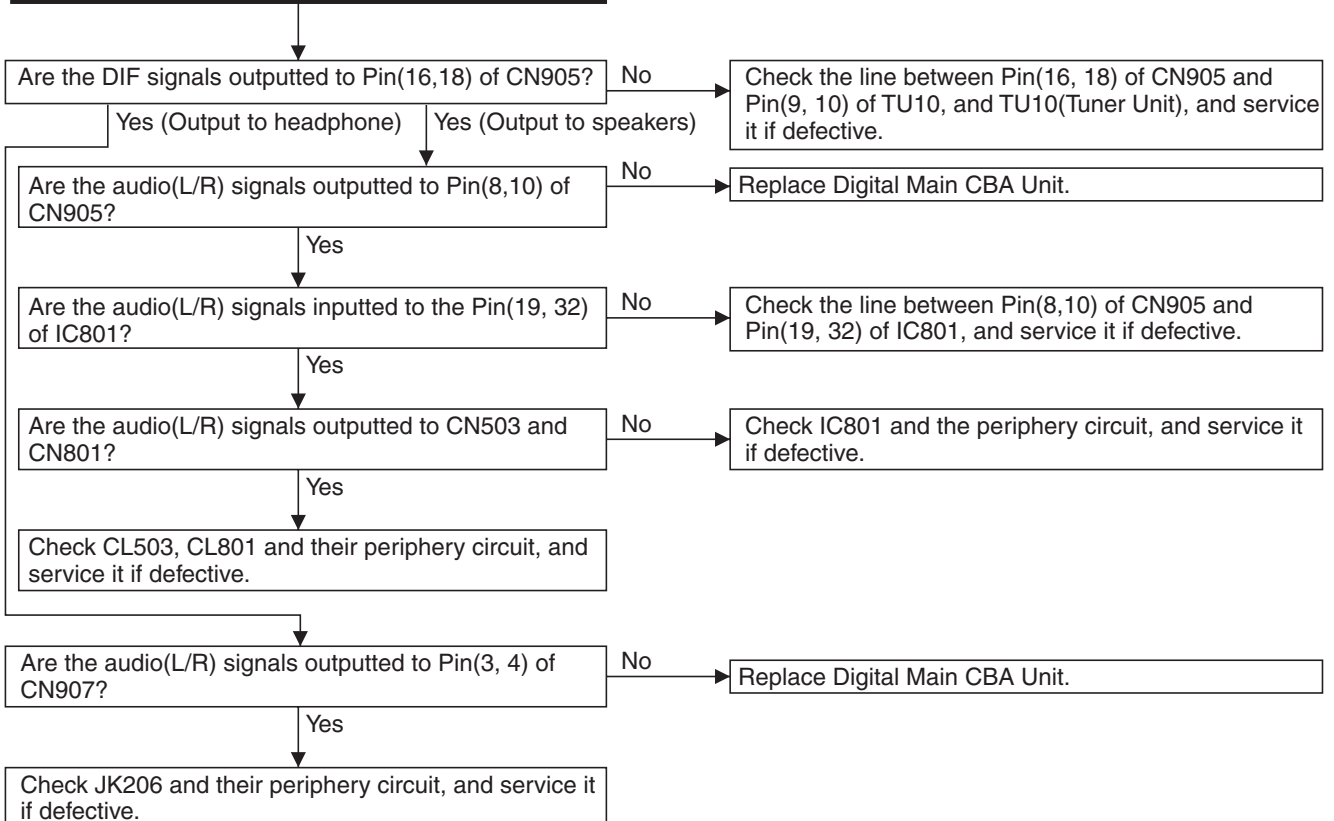
FLOW CHART NO.17

Picture does not appear normally.



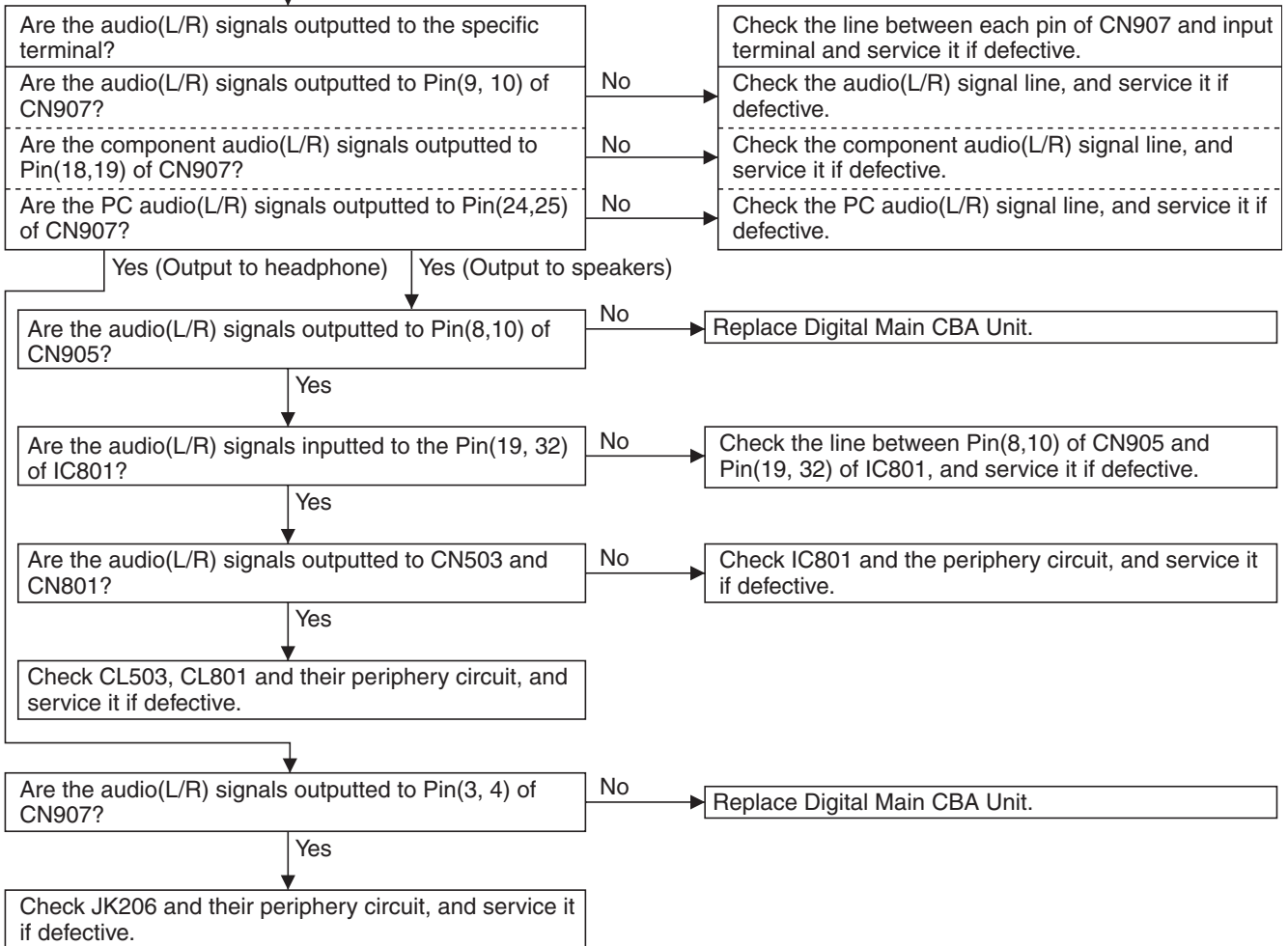
FLOW CHART NO.18

Audio is not outputted normally. (Tuner input (Digital))



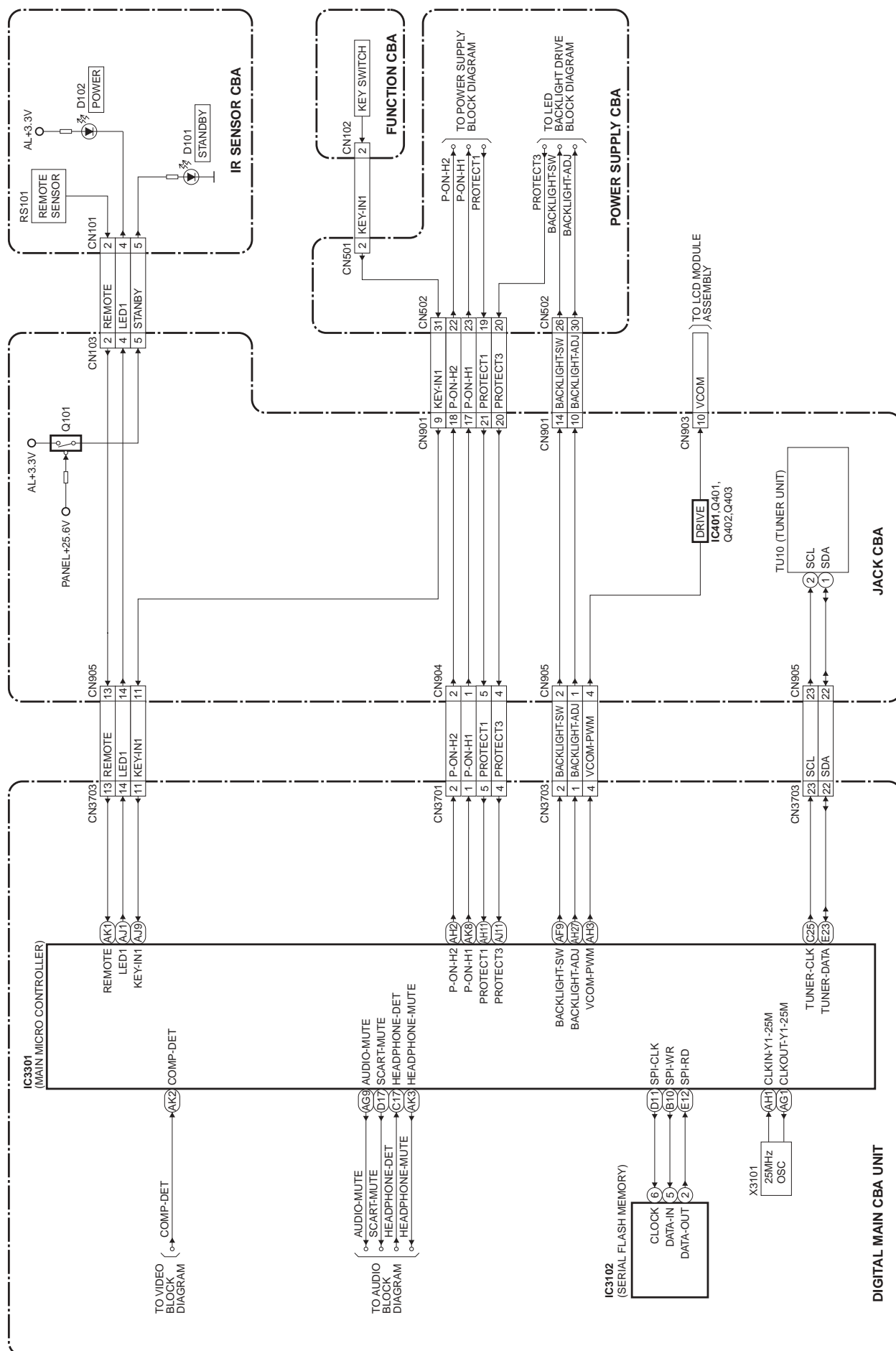
FLOW CHART NO.19

Audio is not outputted normally. (Audio input terminals)

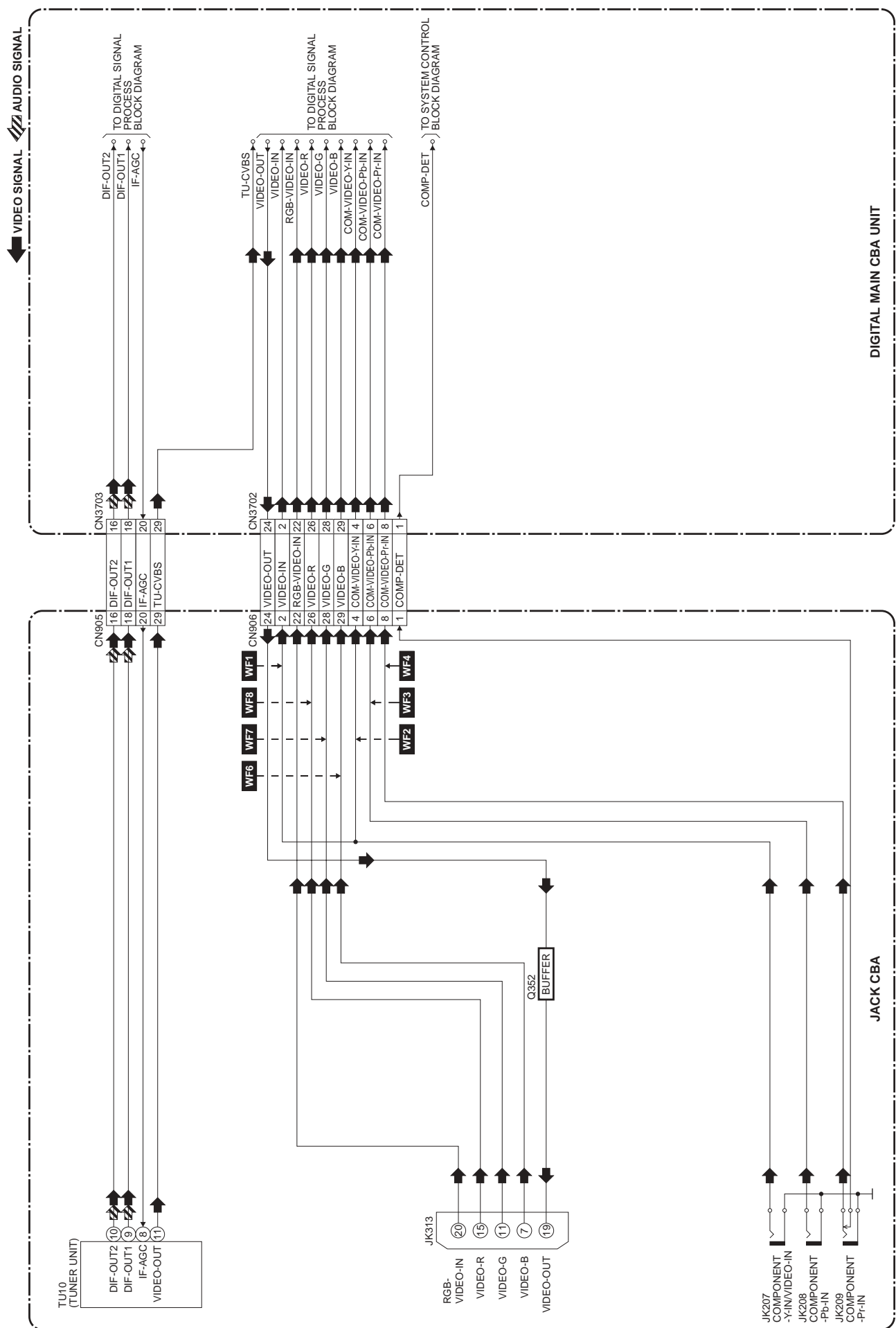


BLOCK DIAGRAMS

System Control Block Diagram



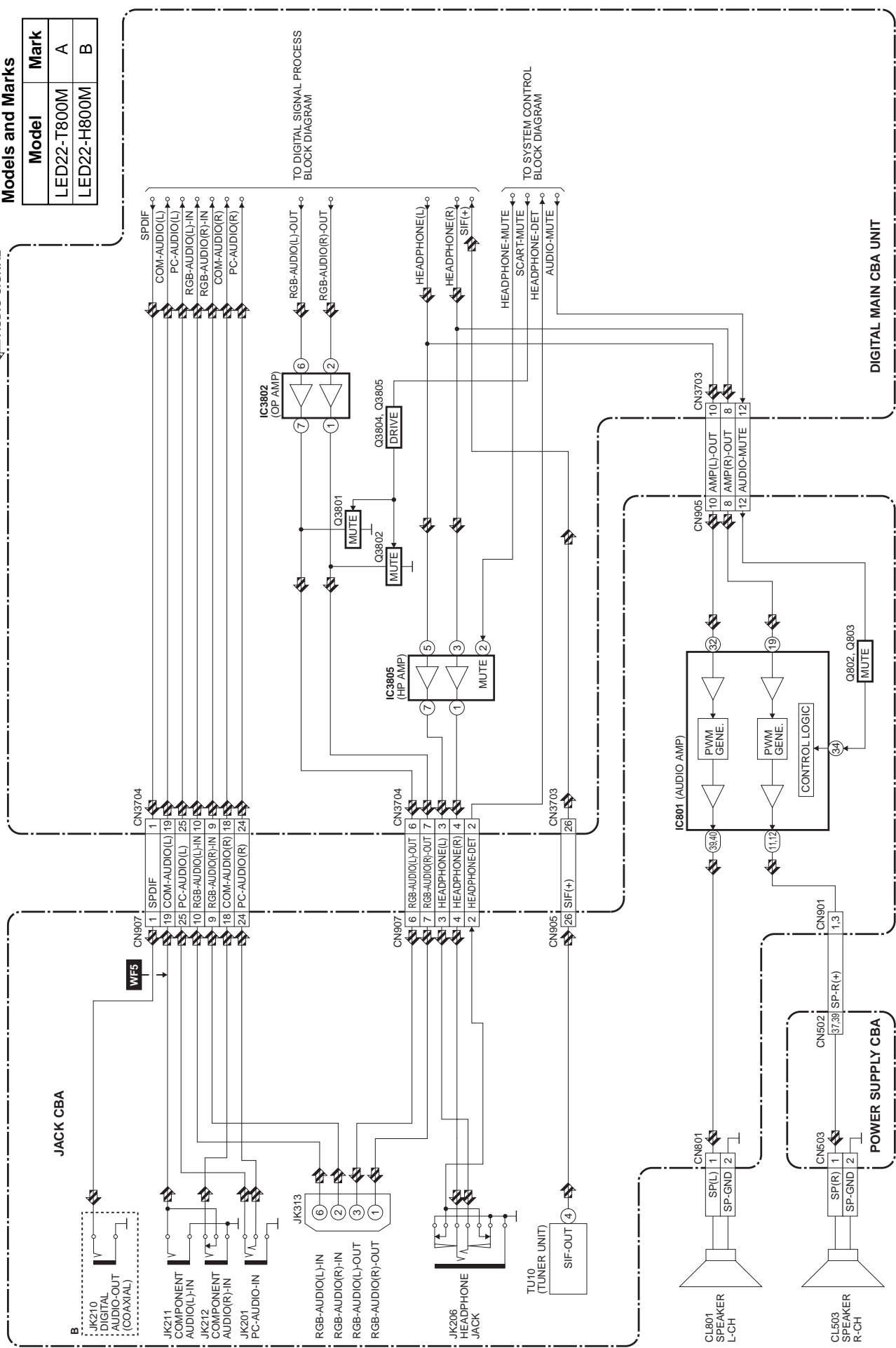
Video Block Diagram



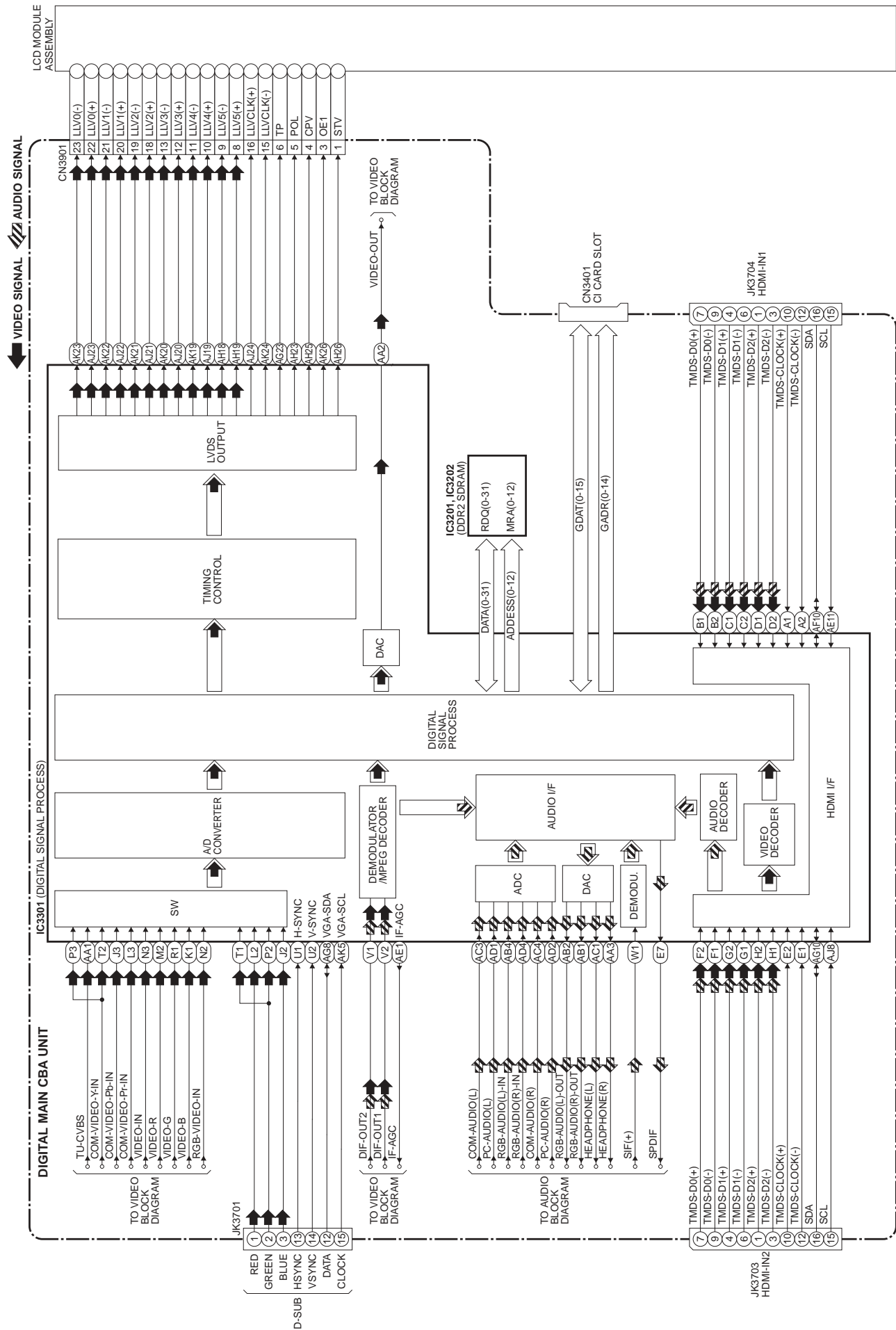
Audio Block Diagram

Comparison Chart of Models and Marks

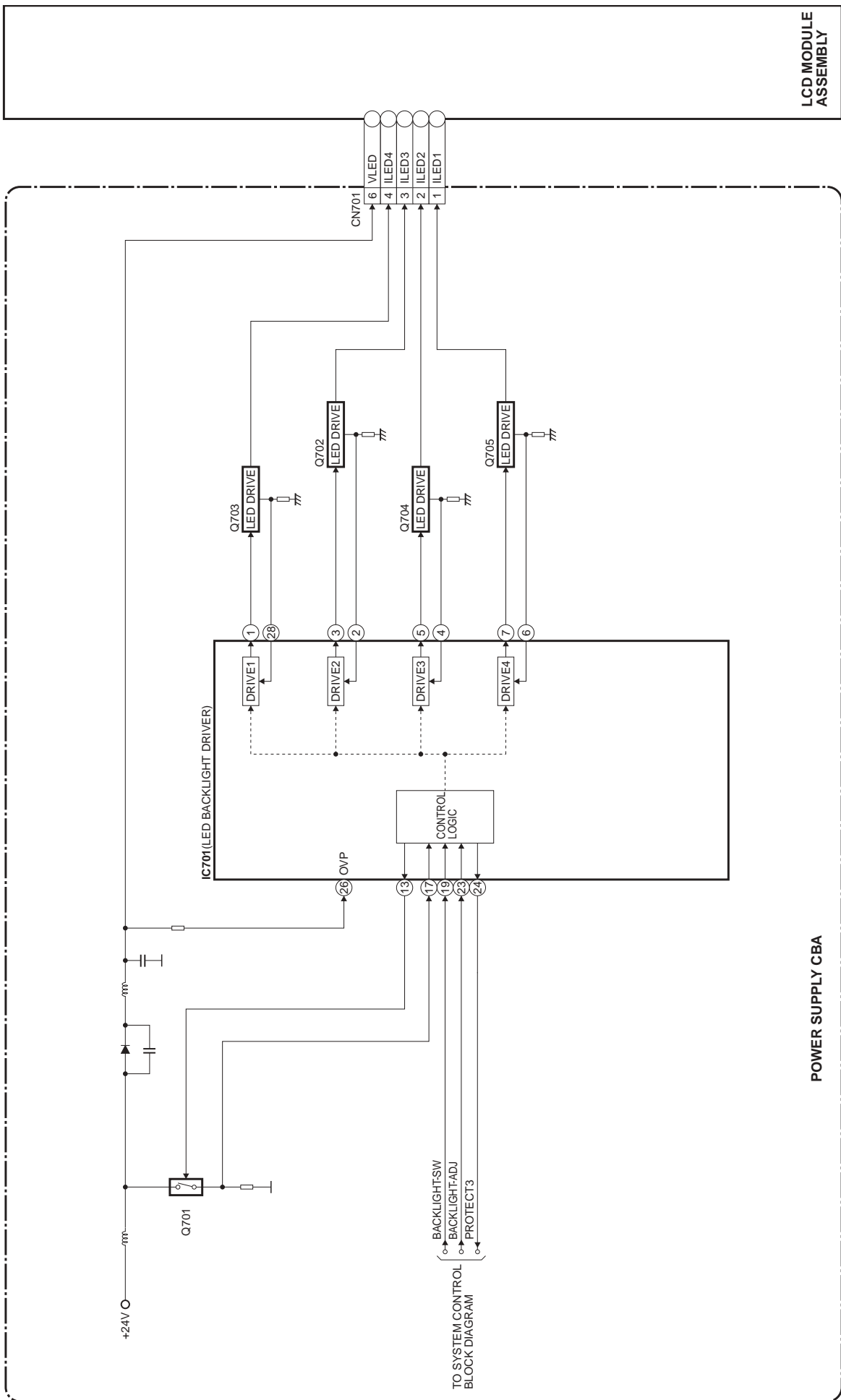
Model	Mark
LED22-T800M	A
LED22-H800M	B



Digital Signal Process Block Diagram



LED Backlight Drive Block Diagram



Power Supply Block Diagram

CAUTION !

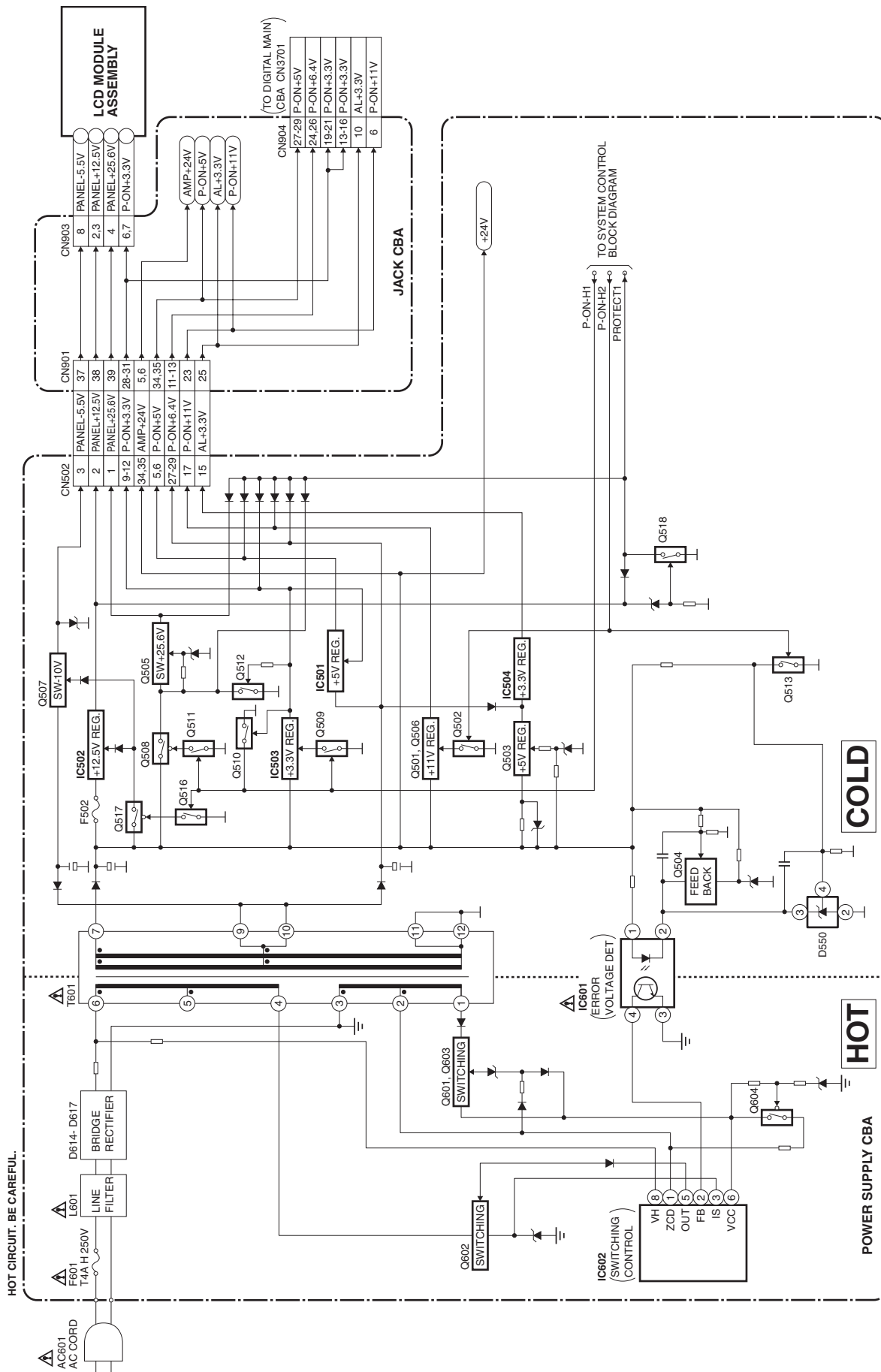
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !

For continued protection against fire hazard,
replace only with the same type fuse.

NOTE:

The voltage for parts in hot circuit is measured using
hot GND as a common terminal.



SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark “⚠” in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6} \mu F$).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

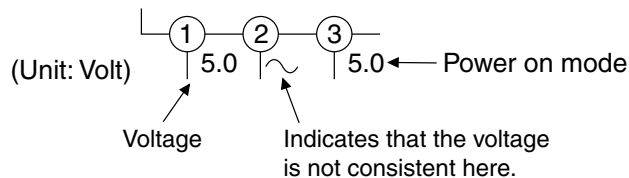
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:

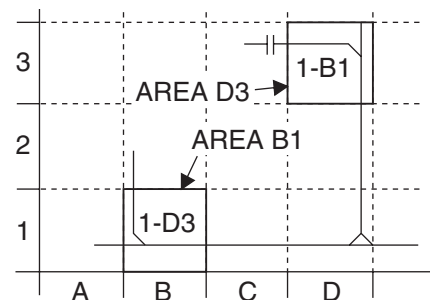


5. How to read converged lines

1-D3
 ↑ Distinction Area
 ↑ Line Number
 (1 to 3 digits)

Examples:

1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

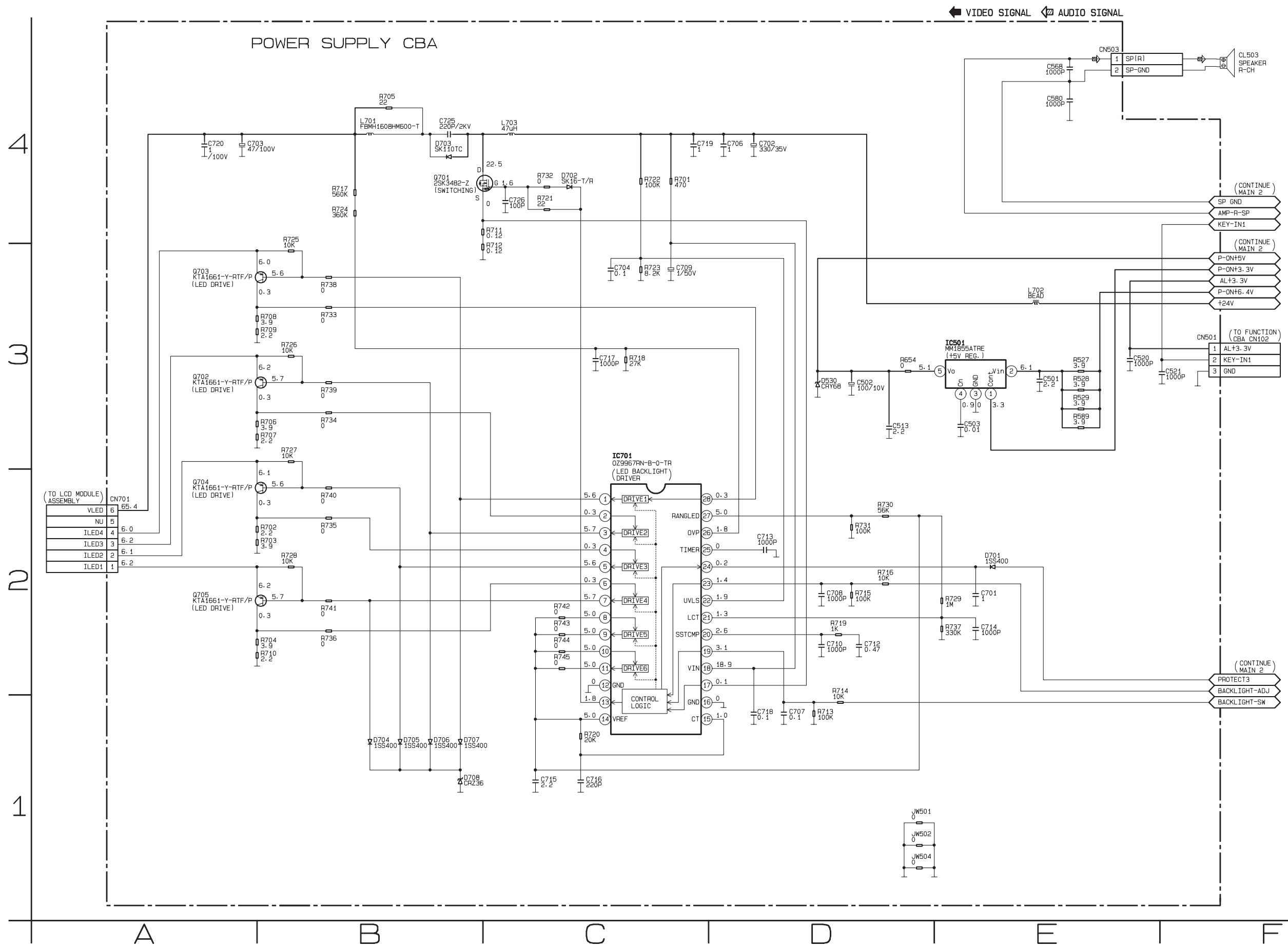
⊙ : Indicates a test point with a jumper wire across a hole in the PCB.

□→ : Used to indicate a test point with a component lead on foil side.

⊘ : Used to indicate a test point with no test pin.

● : Used to indicate a test point with a test pin.

Power Supply 1 Schematic Diagram



Power Supply 2 Schematic Diagram

CAUTION !

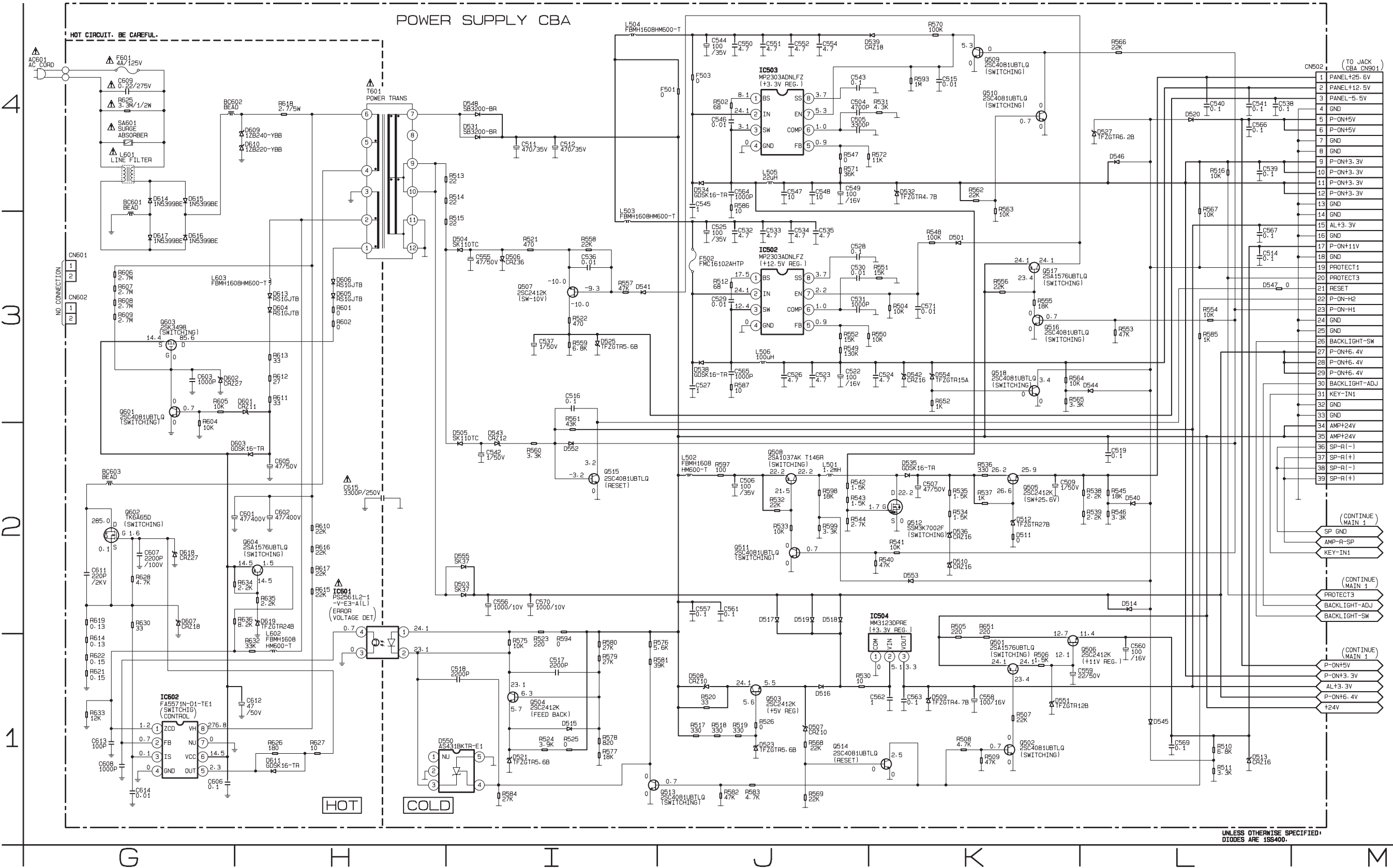
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !

For continued protection against fire hazard,
replace only with the same type fuse.

NOTE:

The voltage for parts in hot circuit is measured using
hot GND as a common terminal.



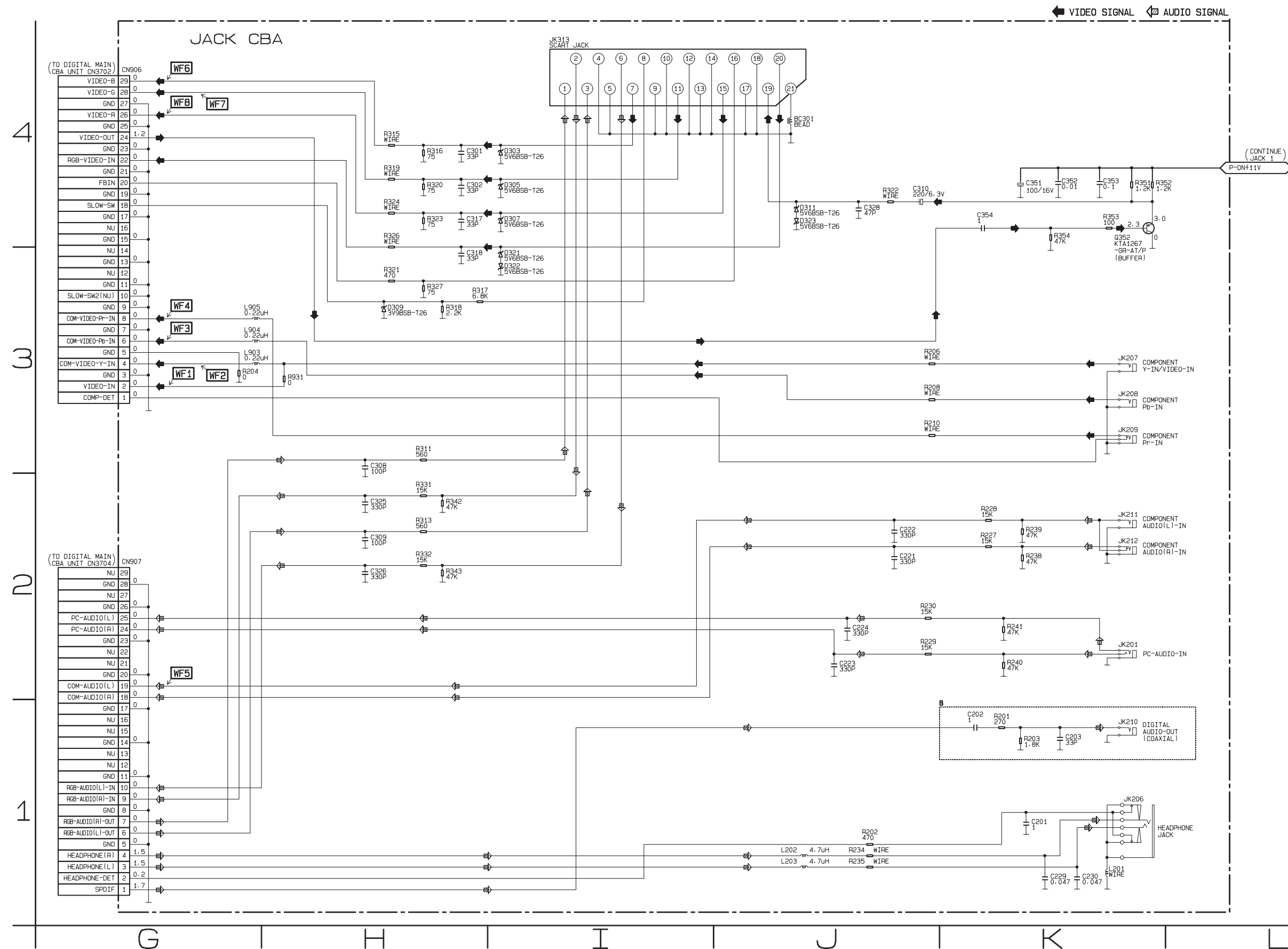
4
—
3
—
2
—
1



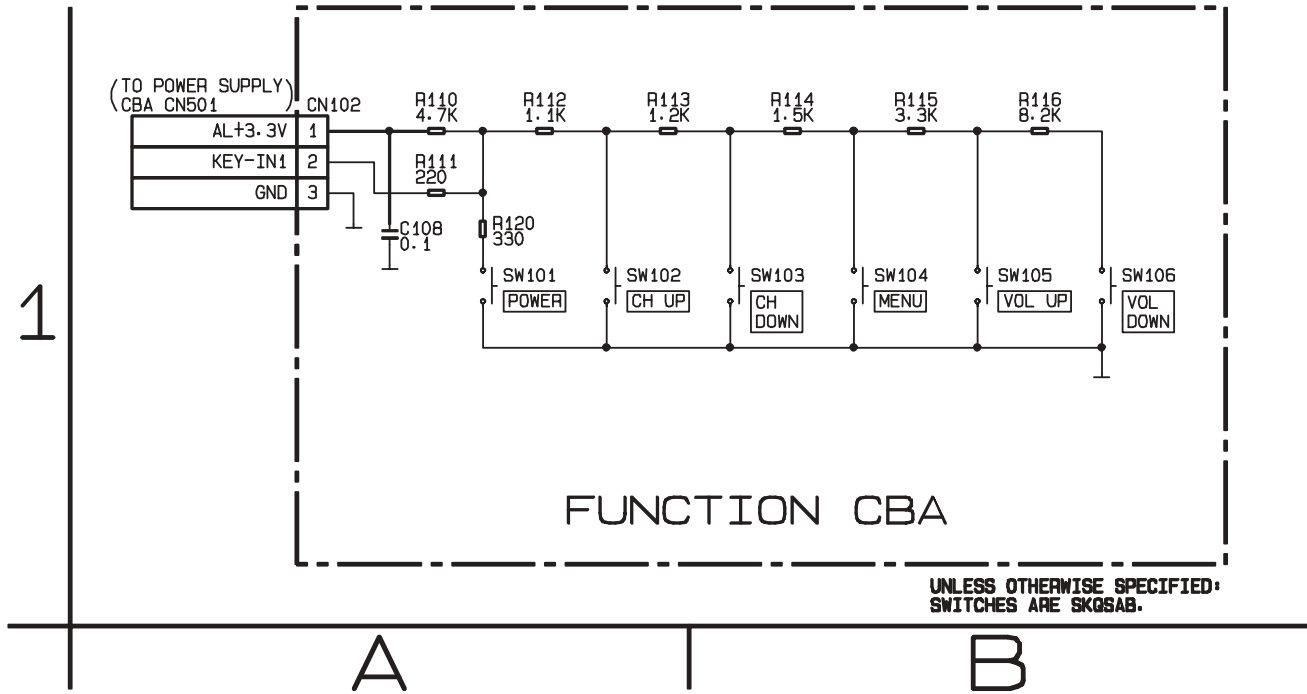
Jack 2 Schematic Diagram

Comparison Chart of Models and Marks

Model	Mark
LED22-T800M	A
LED22-H800M	B

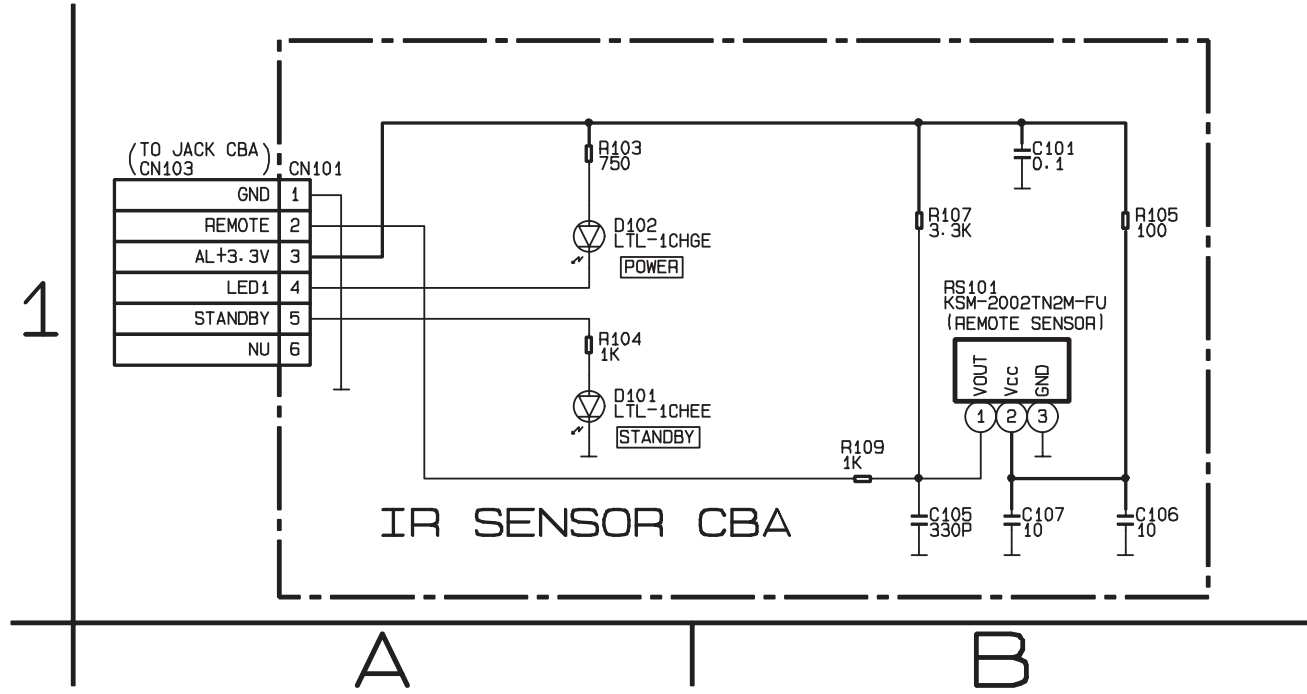


Function Schematic Diagram



A0C76SCF

IR Sensor Schematic Diagram



A0C76SCIR

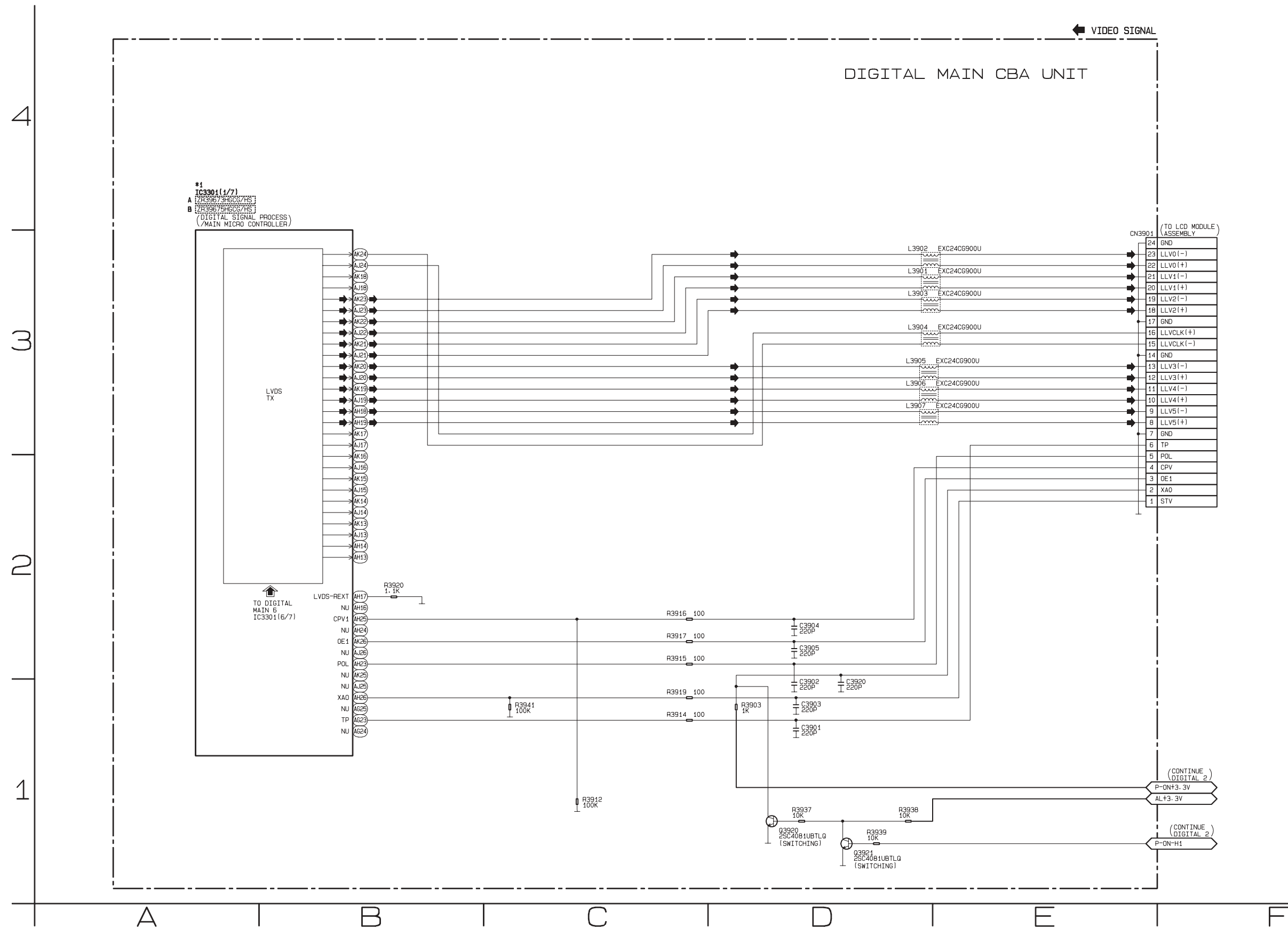
Digital Main 1 Schematic Diagram

Comparison Chart of Models and Marks

Model	Mark
LED22-T800M	A
LED22-H800M	B

***1 NOTE:**

The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



[illegible]

Model	Mark
LED22-T800M	A
LED22-H800M	B

4

3

2

1

Model	Mark
LED22-T800M	A
LED22-H800M	B

The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



4

3

2



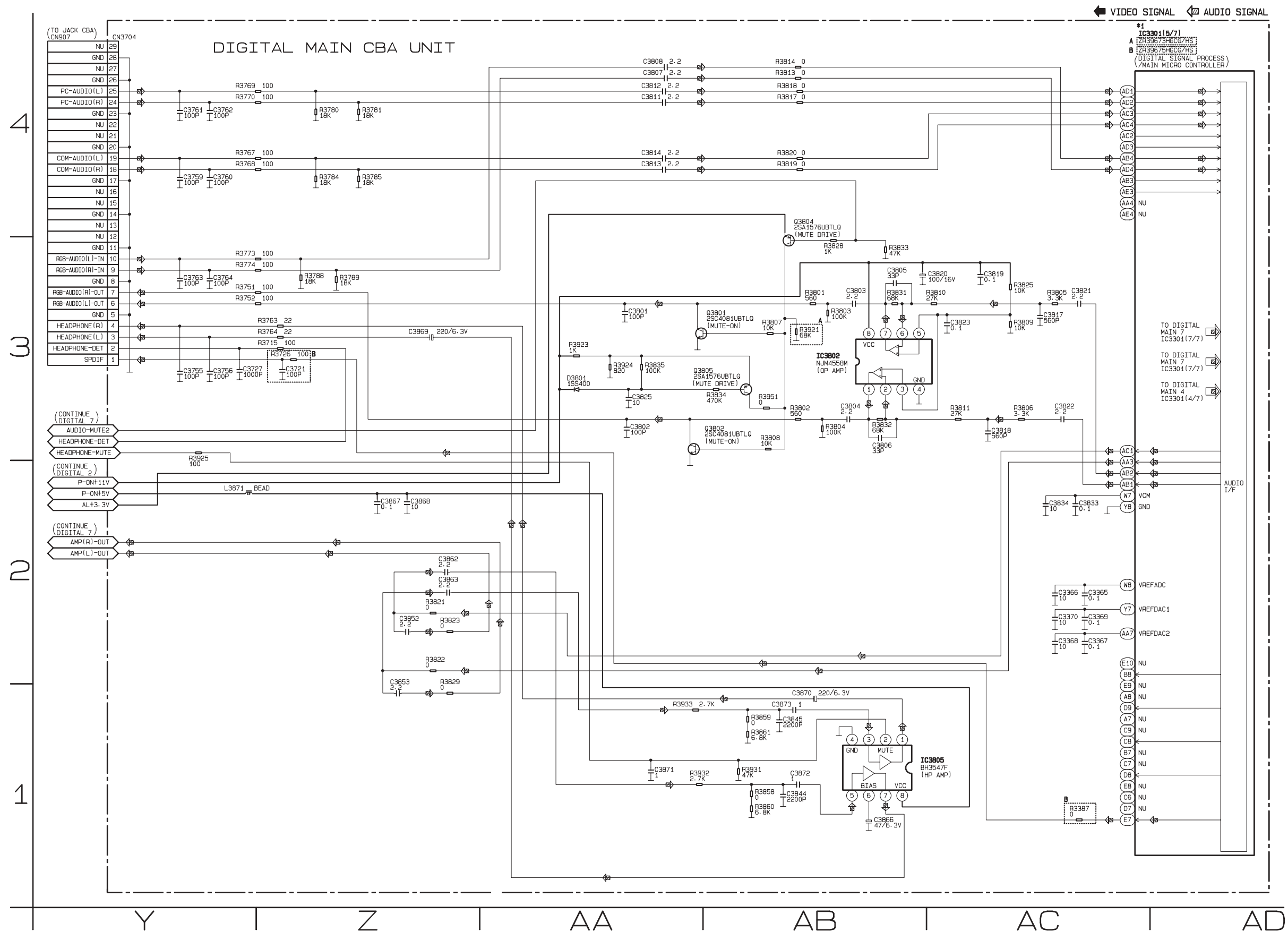
A0C76SCD4

Model	Mark
LED22-T800M	A
LED22-H800M	B

A vertical axis with tick marks labeled 1, 2, 3, and 4.

The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.

Model	Mark
LED22-T800M	A
LED22-H800M	B



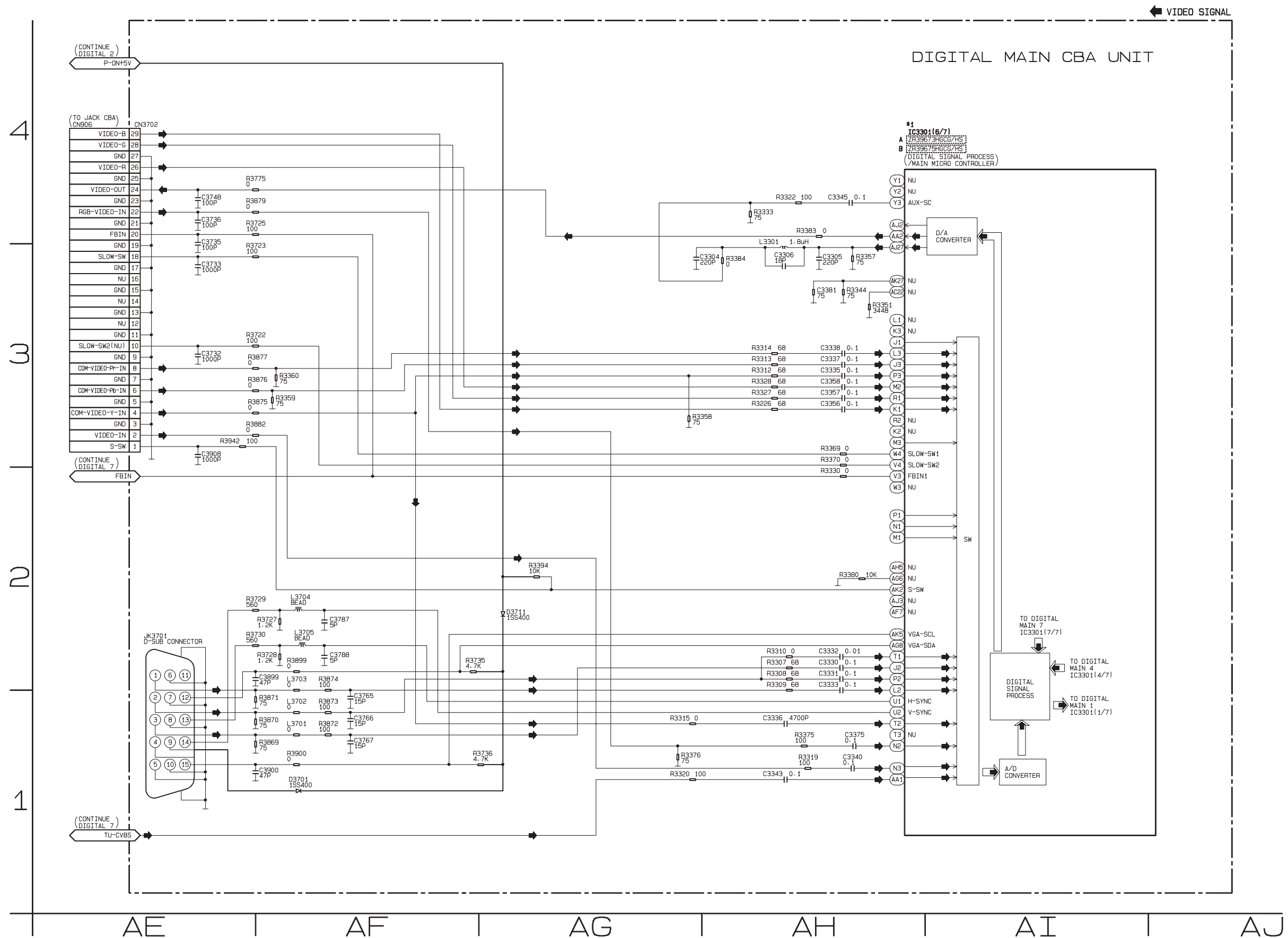
Digital Main 6 Schematic Diagram

Comparison Chart of Models and Marks

Model	Mark
LED22-T800M	A
LED22-H800M	B

***1 NOTE:**

The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.

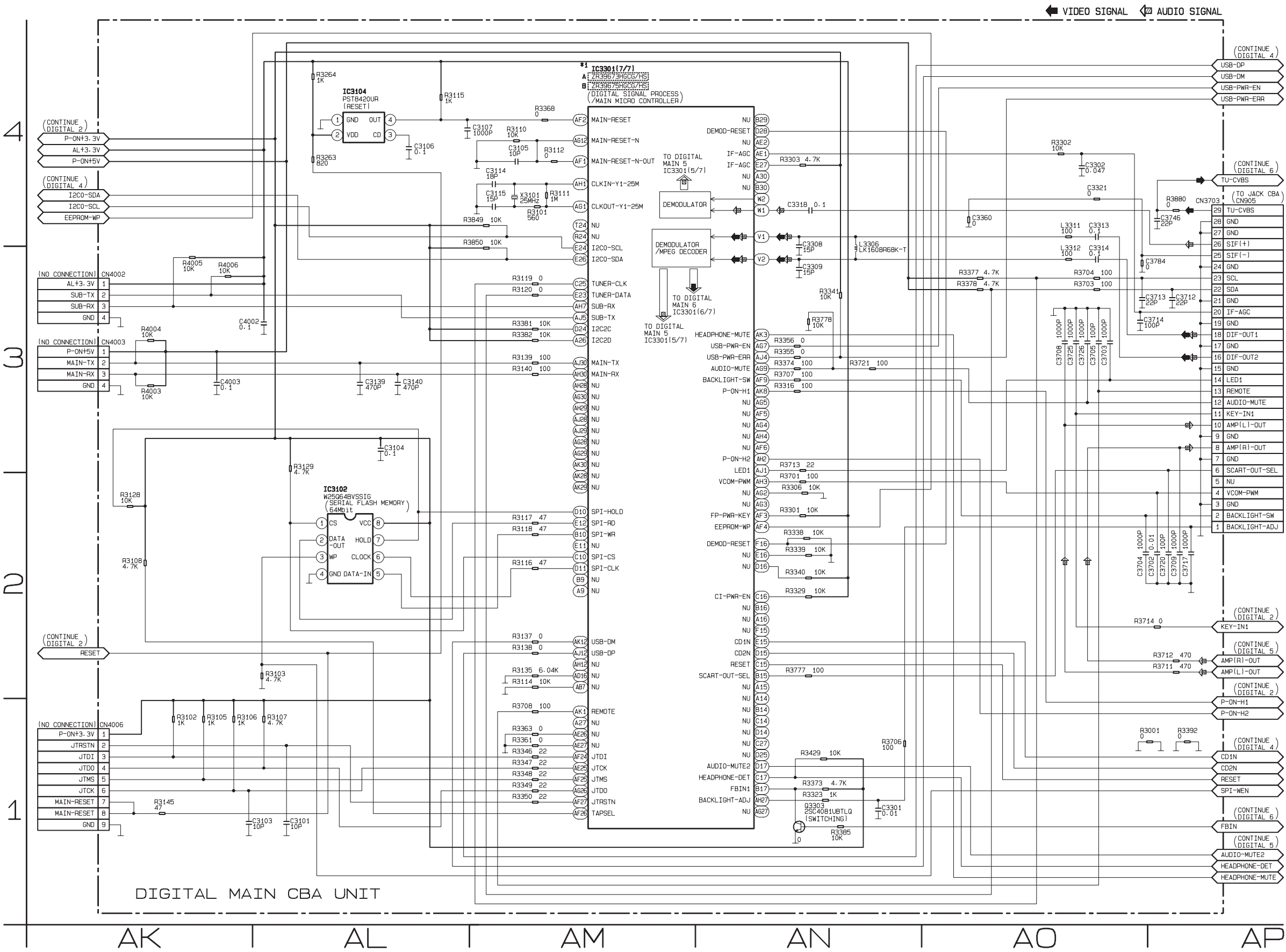


Digital Main 7 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.

Comparison Chart of Models and Marks

Model	Mark
LED22-T800M	A
LED22-H800M	B



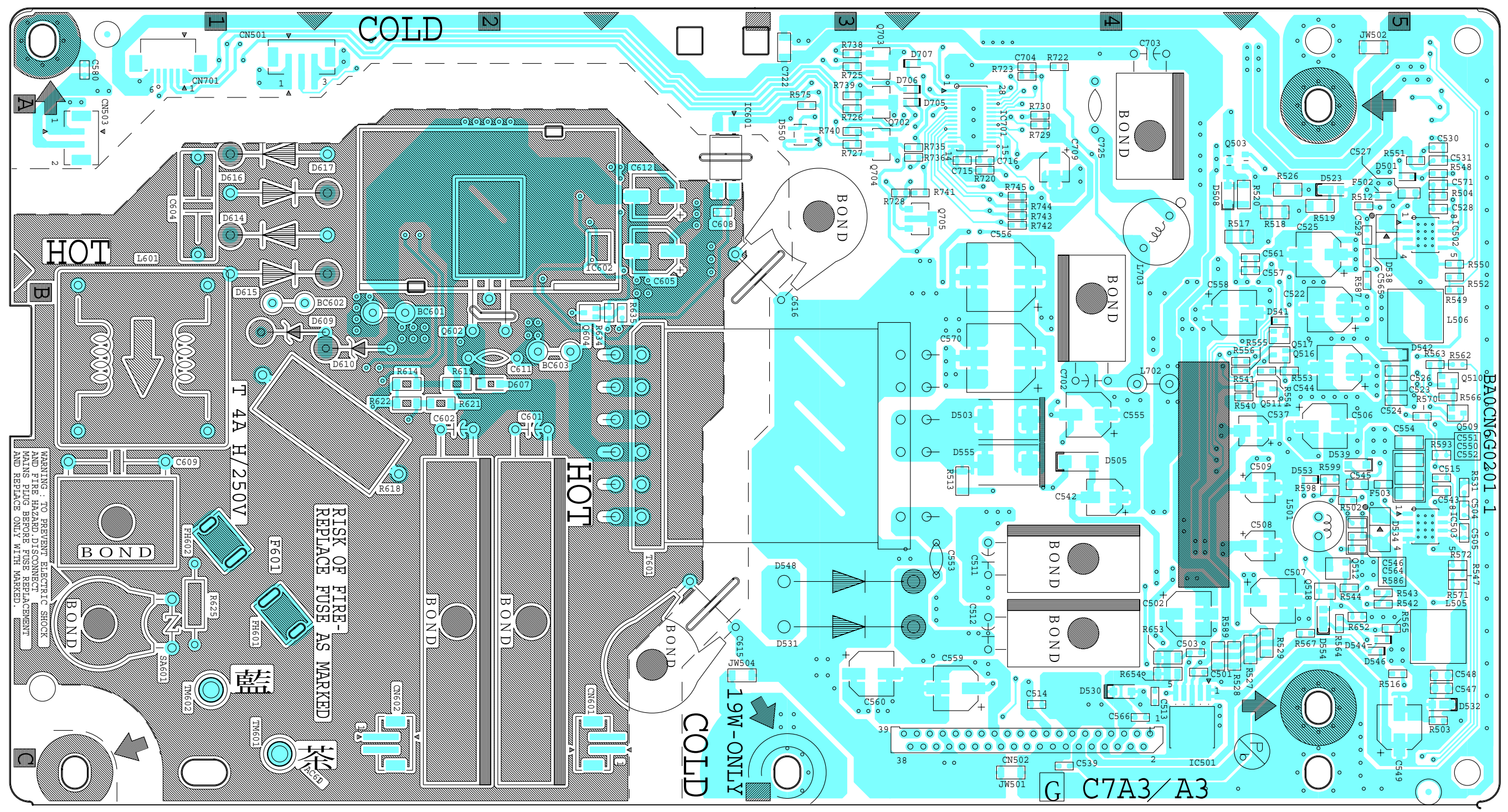
Power Supply CBA Top View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



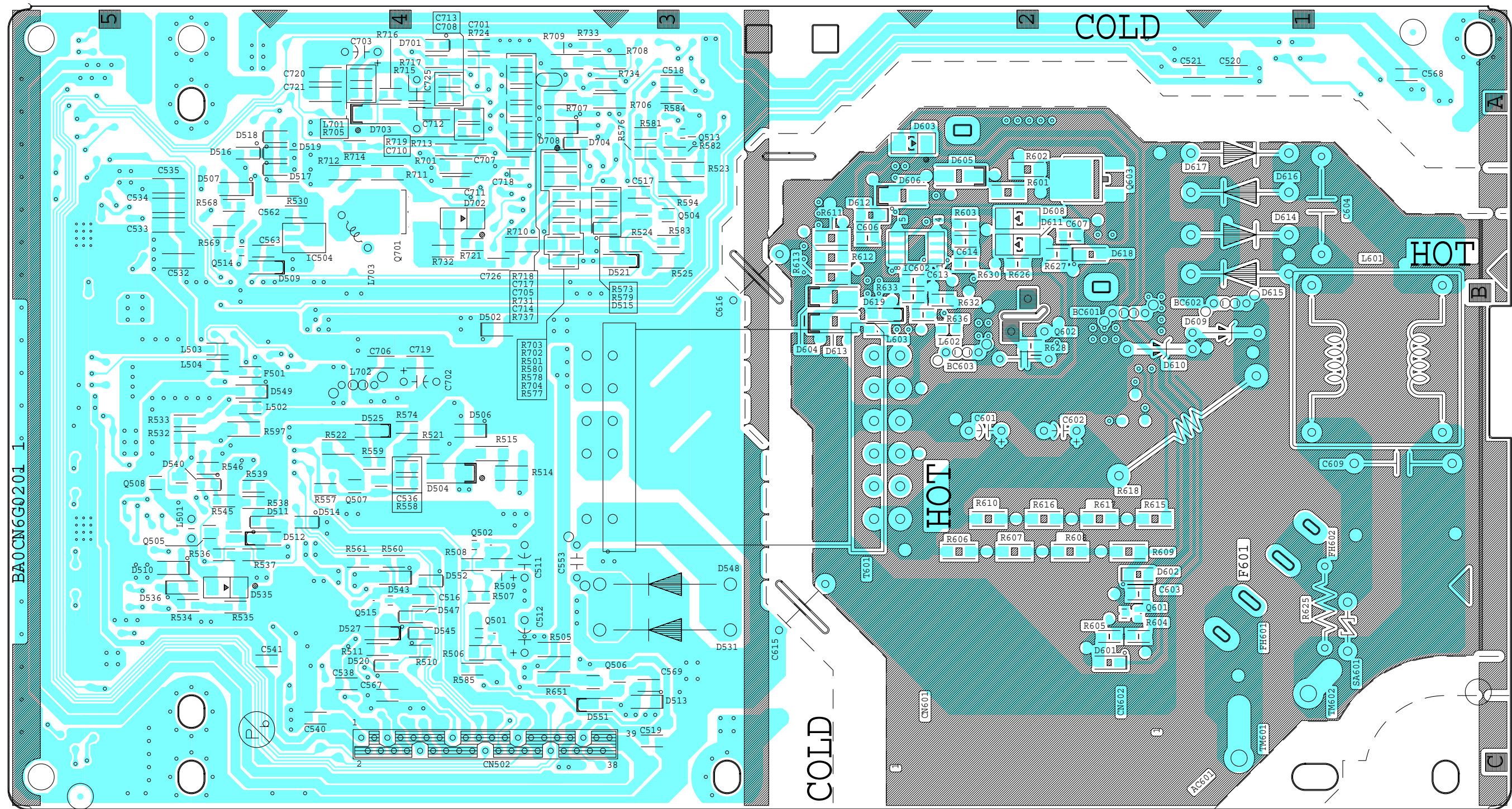
Power Supply CBA Bottom View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

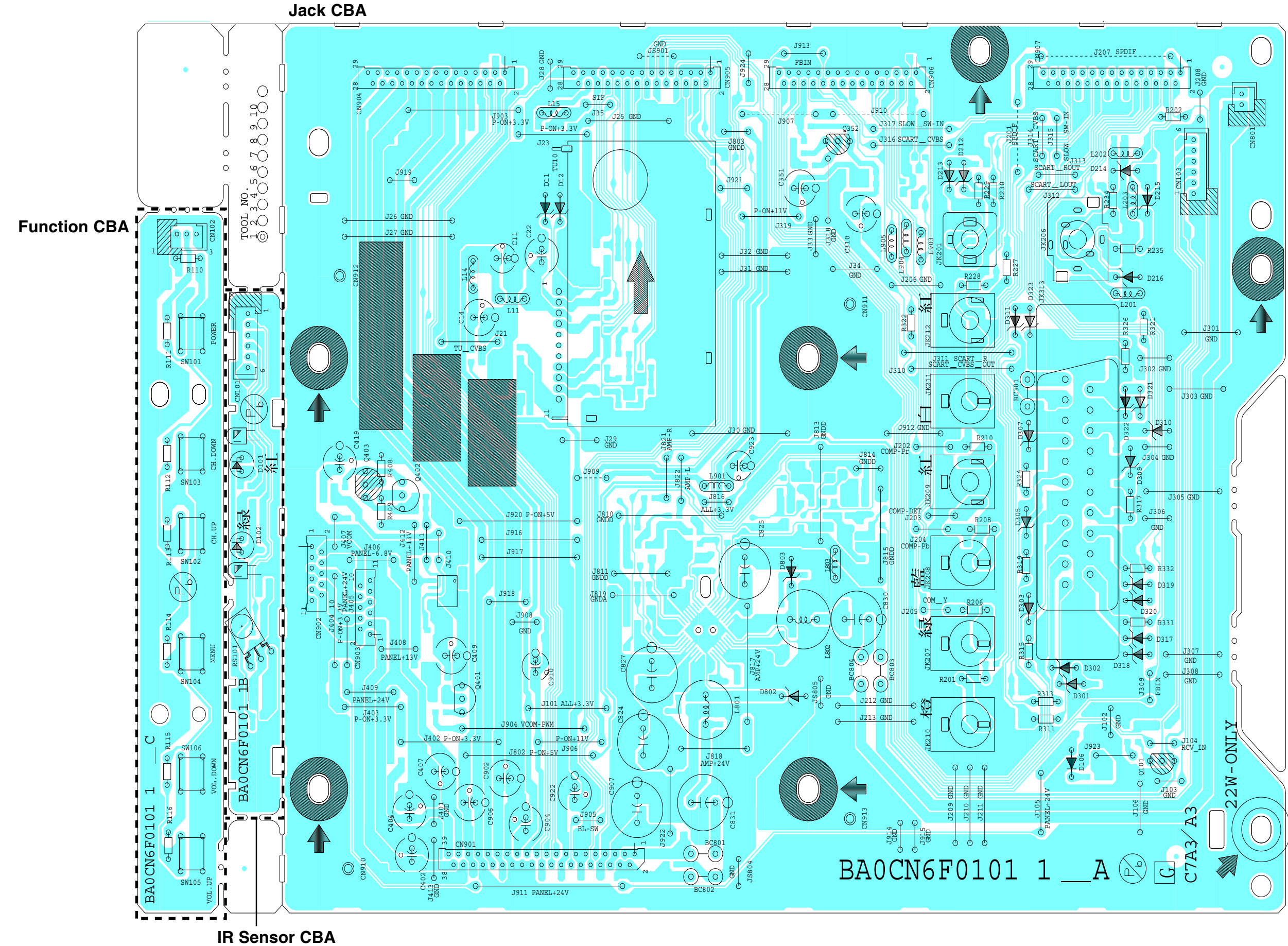
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

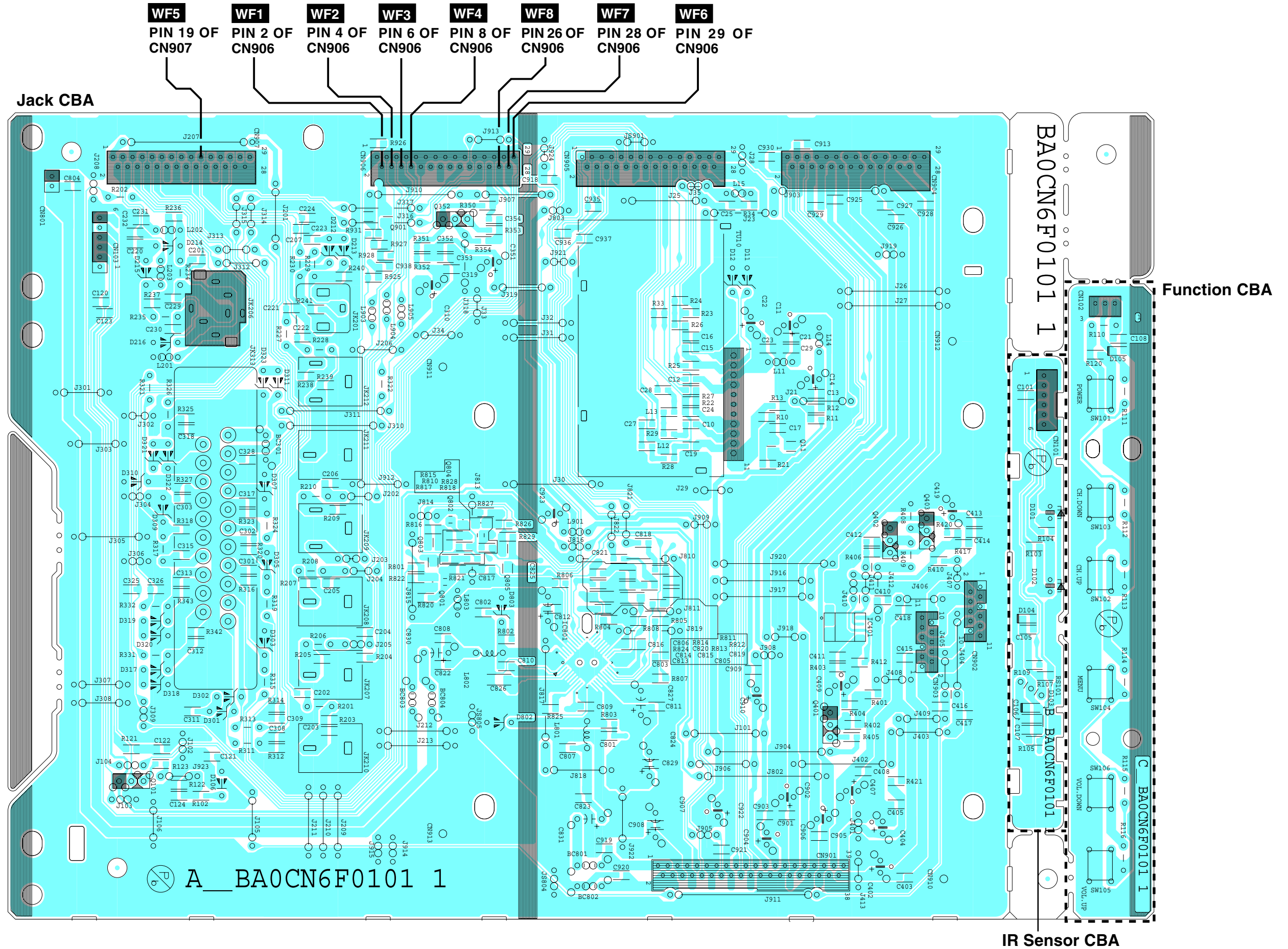
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



Jack CBA, Function CBA & IR Sensor CBA Top View



Jack CBA, Function CBA & IR Sensor CBA Bottom View

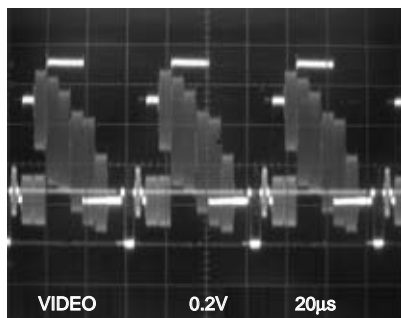


WAVEFORMS

WF1 ~ WF8 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

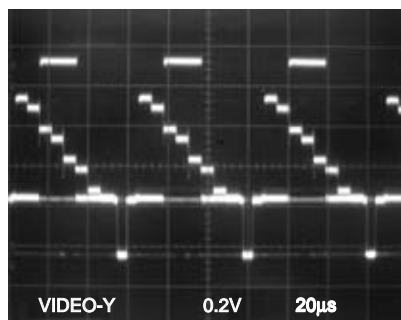
Input: PAL Color Bar Signal (with 1kHz Audio Signal)

WF1 Pin 2 of CN906



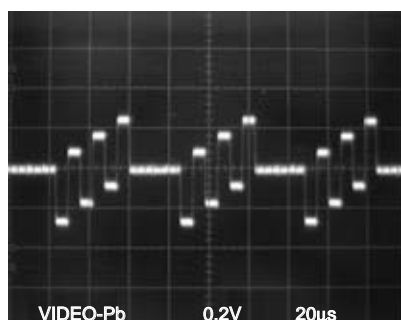
(COMPOSITE VIDEO INPUT)

WF2 Pin 4 of CN906

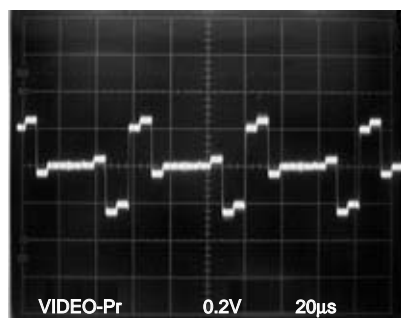


(COMPONENT VIDEO INPUT)

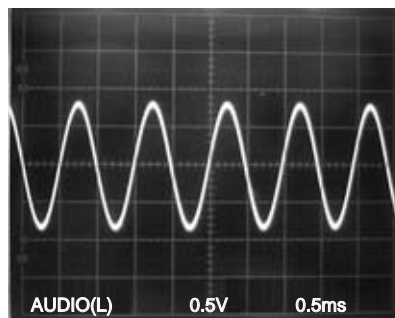
WF3 Pin 6 of CN906



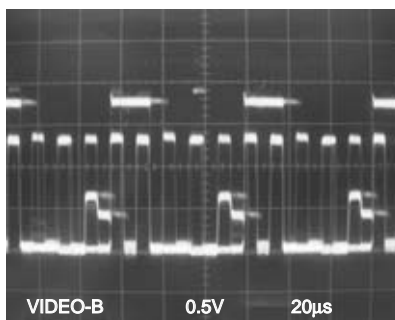
WF4 Pin 8 of CN906



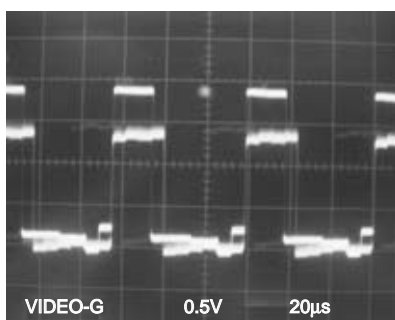
WF5 Pin 19 of CN907



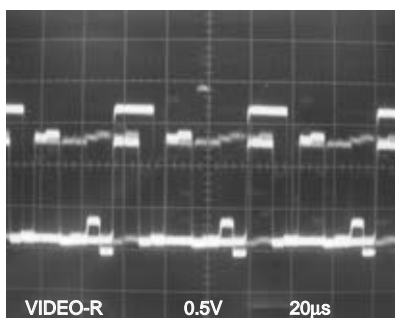
WF6 Pin 29 of CN906



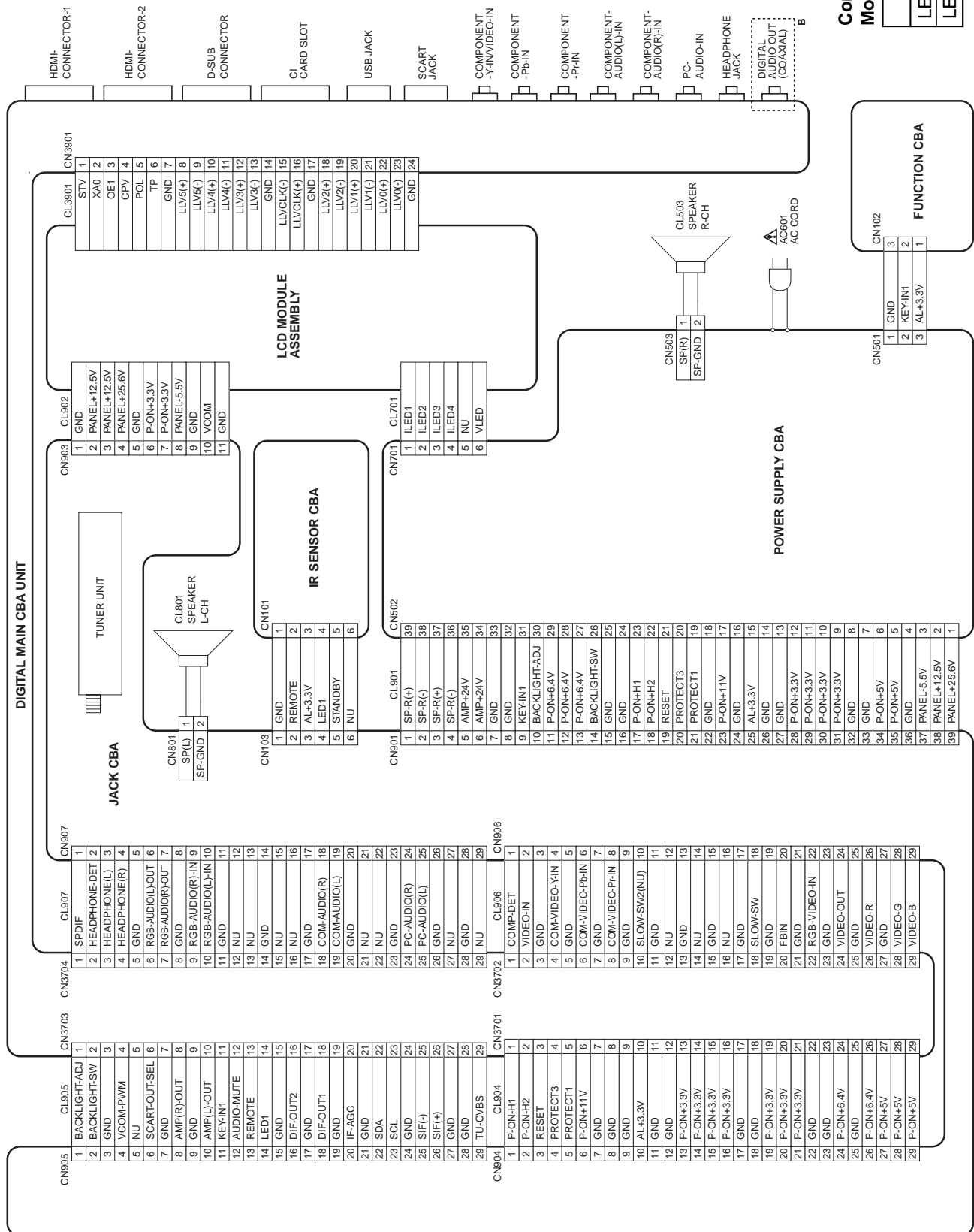
WF7 Pin 28 of CN906



WF8 Pin 26 of CN906



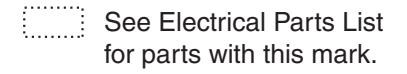
WIRING DIAGRAMS



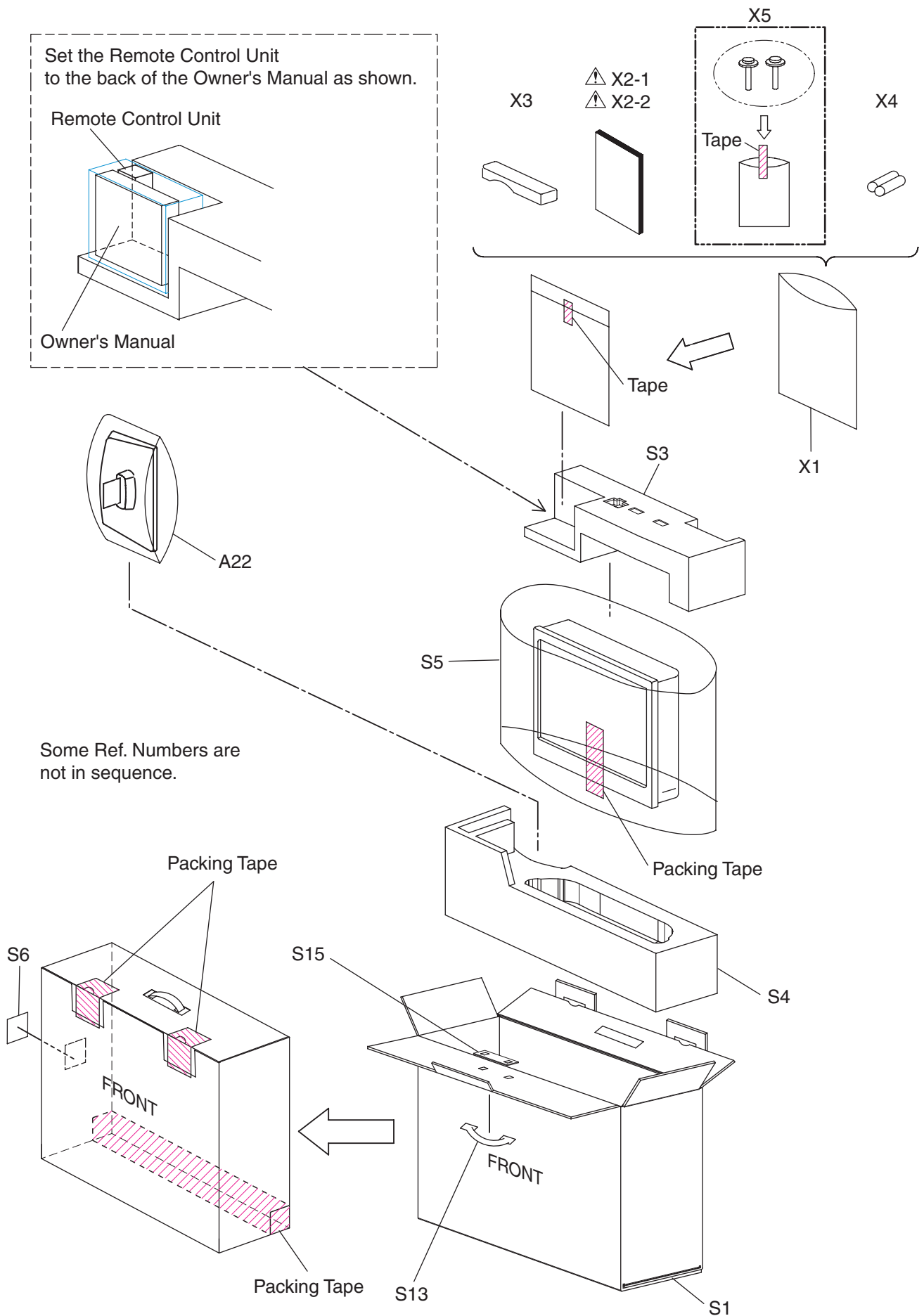
Comparison Chart of Models and Marks

Model	Mark
LED22-T800M	A
LED22-H800M	B


Cabinet



Packing



MECHANICAL PARTS LIST







PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (-----) are not available.

Comparison Chart of Models and Marks

Model	Mark
LED22-T800M	A
LED22-H800M	B

Ref. No.	Mark	Description	Part No.
A1		FRONT CABINET A0C75EP	1EM125354A
A2	A	REAR CABINET A0C76EP	1EM126173
A2	B	REAR CABINET A0C77EP	1EM126174
A4		FUNCTION KNOB A0CN5EP	1EM224963
A8		JACK HOLDER A0CN6EP	1EM225163
A10		CONTROL PLATE A0CN5EP	1EM329117
A11		SENSOR LED LENS A0CN5EP	1EM224883
A13	A	POP LABEL A0CN6EP	-----
A13	B	POP LABEL A0CN7EP	-----
A31		REAR COVER A0C77EP	1EM125573
B1		SHIELD BOX A0CN6EP	1EM125493
B5		STAND BRACKET A0CN6EP	1EM225165
B11		SPEAKER HOLDER A0CN6EP	1EM225164
B13		SEPARATION SHEET A0CN6EP	1EM329643
B18		GASKET A8AF0UH	1EM425861
B22		WALL MOUNT BRACKET A84N0UH	1EM323797
B23		TUNER SHIELD A0CN6EP	1EM329517
CL503		SPEAKER MAGNETIC S0208N08-B	DS16110XQ002
CL701		FFC 6PIN 6PIN/136MM	WX1A0C76-104
CL801		SPEAKER MAGNETIC S0208N08-B	DS16110XQ002
CL901		WIRE ASSEMBLY 39PIN 39PIN/40MM	WX1A0C76-202
CL902		WIRE ASSEMBLY 11PIN 11PIN/75MM	WX1A0C76-401
CL904		WIRE ASSEMBLY 29PIN 29PIN/40MM	WX1A0C76-102
CL905		WIRE ASSEMBLY 29PIN 29PIN/40MM	WX1A0C76-102
CL906		WIRE ASSEMBLY 29PIN 29PIN/40MM	WX1A0C76-102
CL907		WIRE ASSEMBLY 29PIN 29PIN/40MM	WX1A0C76-102
CL3901		WIRE ASSEMBLY 24PIN 24PIN/60MM	WX1A0C76-402
L5		SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L12		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
L13		HEX SCREW #4-40 7MM	1EM430139
L14		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
LCD1		LCD MODULE LED BL/CMO 6BIT NORMAL GRADE	UJ22MEA
X3301		THERMOSTAR TMS-L-2(12*12HC)	XK10000X4003
PACKING			
S5		SET BAG A81N0UH	1EM323958A
ACCESSORY			
X3		REMOTE CONTROL NH205RD	NH205RD

Ref. No.	Mark	Description	Part No.
A12 	A	RATING LABEL A0C76EP	-----
A12 	B	RATING LABEL A0C77EP	-----
A22		STAND ASSEMBLY A0CN6EP	1EM125593
B36		CLOTH 10X150XT1.0	1EM421092
L1		SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L2		SCREW P-TIGHT 3X14 WASHER HEAD+	GCHP3140
L5		SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L14		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L15		DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
PACKING			
S1	A	CARTON A0C76EP see Note	1EM330097
S1	B	CARTON A0C77EP see Note	1EM329057
S3		STYROFOAM TOP A0C77EP	1EM027025
S4		STYROFOAM BOTTOM A0C77EP	1EM027026
S6		SERIAL NO. LABEL L9750UA	-----
S13		HANDLE A0CN6EP	1EM330037
S15		HANDLE BASE A0CN6EP	1EM433957
ACCESSORIES			
X1		BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2-1 	A	OWNERS MANUAL(WE-10) A0CN6EP	1EMN26859
X2-1 	B	OWNERS MANUAL(WE-10) A0CN7EP	1EMN26866
X2-2 	A	OWNERS MANUAL(PL-14) A0CN6EP	1EMN26860
X2-2 	B	OWNERS MANUAL(PL-14) A0CN7EP	1EMN26867
X4		BATTERY DRY R03REL/2PA	XB00M00MS001
X5		STAND SCREW KIT A0CN6EP	1ESA25706

Note:


added new Item, 15.11.2011

S1

Carton (Brown)

1EM330377BR

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

- Parts that are not assigned part numbers (-----) are not available.
- Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%
 G.....±2% J.....±5% K.....±10%
 M.....±20% N.....±30% Z.....+80/-20%

Comparison Chart of Models and Marks

Model	Mark
LED22-T800M	A
LED22-H800M	B

DIGITAL MAIN CBA UNIT




Ref. No.	Mark	Description	Part No.
	A	DIGITAL MAIN CBA UNIT	A0C76MMA-001
	B	DIGITAL MAIN CBA UNIT	A0C77MMA-001

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA Consists of the following:	A0C77MPW-001
CAPACITORS		
C501	CHIP CERAMIC CAP.(1608) B K 2.2µF/10V	CHD1AK30B225
C502	CHIP ELECTROLYTIC CAP. 100µF/16V M(WX) or	CA1C101NC181
	CHIP ELECTROLYTIC CAP. 100µF/16V M(MS) or	CA1C101FEN02
	CHIP ELECTROLYTIC CAP. 100µF/16V M or	CA1C101SP062
	ELECTROLYTIC CAP. 100µF/16V(RV3)	CEC101ELN007
C503	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C504	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C505	CHIP CERAMIC CAP.(1608) B K 3300pF/50V	CHD1JK30B332
C506	CHIP ELECTROLYTIC CHIP 100µF/35V	CA1G101SP062
C507	CHIP ELECTROLYTIC CAP. 47µF/50V M or	CA1J470SP062
	CHIP ELECTROLYTIC CAP. 47µF/50V M(MS) or	CA1J470FEN02
	ELECTROLYTIC CAP. 47µF/50V(RV3)	CEF470ELN007
C509	CHIP ELECTROLYTIC CAP. 1µF/50V M or	CA1J010SP062
	CHIP ELECTROLYTIC CAP. 1µF/50V M(WX) or	CA1J1R0NC181
	CHIP ELECTROLYTIC CAP. 1µF/50V M(MS) or	CA1J1R0FEN02
	ELECTROLYTIC CAP. 1µF/50V(RV2)	CEG010ELN021
C511	CAP ELE 085 470µF/35V/M/SL	CEF4710S6012
C512	CAP ELE 085 470µF/35V/M/SL	CEF4710S6012
C513	CHIP CERAMIC CAP.(1608) B K 2.2µF/10V	CHD1AK30B225
C514	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C515	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C516	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C517	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C518	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222

Ref. No.	Description	Part No.
C519	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C520	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001µF/50V	CHD102EYA032
C521	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001µF/50V	CHD102EYA032
C522	CHIP ELECTROLYTIC CAP. 100µF/16V M(WX) or	CA1C101NC181
	CHIP ELECTROLYTIC CAP. 100µF/16V M(MS) or	CA1C101FEN02
	CHIP ELECTROLYTIC CAP. 100µF/16V M or	CA1C101SP062
	ELECTROLYTIC CAP. 100µF/16V(RV3)	CEC101ELN007
C523	CHIP CERAMIC CAP.(2125) B K 4.7µF/25V or	CA1E475MR084
	CHIP CERAMIC CAP.(2125) X5R K 4.7µF/25V	CHA4750TU008
C524	CHIP CERAMIC CAP.(2125) B K 4.7µF/25V or	CA1E475MR084
	CHIP CERAMIC CAP.(2125) X5R K 4.7µF/25V	CHA4750TU008
C525	CHIP ELECTROLYTIC CHIP 100µF/35V	CA1G101SP062
C526	CHIP CERAMIC CAP.(2125) B K 4.7µF/25V or	CA1E475MR084
	CHIP CERAMIC CAP.(2125) X5R K 4.7µF/25V	CHA4750TU008
C527	CHIP CERAMIC CAP.(2125) F Z 1µF/50V	CHE1JZ30F105
C528	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1µF/50V	CHD104EYA032
C529	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C530	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C531	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001µF/50V	CHD102EYA032
C532	CAP CHIP 3216 4.7µF/50V 3216	CA1J475MR104
C533	CAP CHIP 3216 4.7µF/50V 3216	CA1J475MR104
C534	CAP CHIP 3216 4.7µF/50V 3216	CA1J475MR104
C535	CAP CHIP 3216 4.7µF/50V 3216	CA1J475MR104
C536	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C537	CHIP ELECTROLYTIC CAP. 1µF/50V M or	CA1J010SP062
	CHIP ELECTROLYTIC CAP. 1µF/50V M(WX) or	CA1J1R0NC181
	CHIP ELECTROLYTIC CAP. 1µF/50V M(MS) or	CA1J1R0FEN02
	ELECTROLYTIC CAP. 1µF/50V(RV2)	CEG010ELN021
C538	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C539	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C540	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C541	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C542	CHIP ELECTROLYTIC CAP. 1µF/50V M or	CA1J010SP062
	CHIP ELECTROLYTIC CAP. 1µF/50V M(WX) or	CA1J1R0NC181
	CHIP ELECTROLYTIC CAP. 1µF/50V M(MS) or	CA1J1R0FEN02
	ELECTROLYTIC CAP. 1µF/50V(RV2)	CEG010ELN021
C543	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1µF/50V	CHD104EYA032
C544	CHIP ELECTROLYTIC CHIP 100µF/35V	CA1G101SP062
C545	CHIP CERAMIC CAP.(2125) F Z 1µF/50V	CHE1JZ30F105
C546	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C547	CHIP CERAMIC CAP.(2125) F Z 10µF/10V	CHE1AZ30F106
C548	CHIP CERAMIC CAP.(2125) F Z 10µF/10V	CHE1AZ30F106
C549	CHIP ELECTROLYTIC CAP. 100µF/16V M(WX) or	CA1C101NC181
	CHIP ELECTROLYTIC CAP. 100µF/16V M(MS) or	CA1C101FEN02
	CHIP ELECTROLYTIC CAP. 100µF/16V M or	CA1C101SP062
	ELECTROLYTIC CAP. 100µF/16V(RV3)	CEC101ELN007
C550	CAP CHIP 3216 4.7µF/50V 3216	CA1J475MR104
C551	CAP CHIP 3216 4.7µF/50V 3216	CA1J475MR104

Ref. No.	Description	Part No.
C552	CAP CHIP 3216 4.7μF/50V 3216	CA1J475MR104
C554	CAP CHIP 3216 4.7μF/50V 3216	CA1J475MR104
C555	CHIP ELECTROLYTIC CAP. 47μF/50V M or	CA1J470SP062
	CHIP ELECTROLYTIC CAP. 47μF/50V M(MS) or	CA1J470FEN02
	ELECTROLYTIC CAP. 47μF/50V(RV3)	CEF470ELN007
C556	CHIP ELECTROLYTIC CAP. 1000μF/10V M or	CA1A102SP062
	CHIP ELECTROLYTIC CAP. 1000μF/10V M or	CA1A102NC183
	ELECTROLYTIC CAP. 1000μF/10V(RV)	CEB102ELN005
C557	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C558	CHIP ELECTROLYTIC CAP. 100μF/16V M(WX) or	CA1C101NC181
	CHIP ELECTROLYTIC CAP. 100μF/16V M(MS) or	CA1C101FEN02
	CHIP ELECTROLYTIC CAP. 100μF/16V M or	CA1C101SP062
	ELECTROLYTIC CAP. 100μF/16V(RV3)	CEC101ELN007
C559	CHIP ELECTROLYTIC CAP. 22μF/50V M or	CA1J220NC183
	CHIP ELECTROLYTIC CAP. 22μF/50V or	CA1J220SP062
	CHIP ELECTROLYTIC CAP. 22μF/50V M(MS) or	CA1J220FEN02
	ELECTROLYTIC CAP. 22μF/50V(RV3)	CEF220ELN007
C560	CHIP ELECTROLYTIC CAP. 100μF/16V M(WX) or	CA1C101NC181
	CHIP ELECTROLYTIC CAP. 100μF/16V M(MS) or	CA1C101FEN02
	CHIP ELECTROLYTIC CAP. 100μF/16V M or	CA1C101SP062
	ELECTROLYTIC CAP. 100μF/16V(RV3)	CEC101ELN007
C561	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C562	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C563	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C564	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
	CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C565	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
	CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C566	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C567	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C568	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
	CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C569	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C570	CHIP ELECTROLYTIC CAP. 1000μF/10V M or	CA1A102SP062
	CHIP ELECTROLYTIC CAP. 1000μF/10V M or	CA1A102NC183
	ELECTROLYTIC CAP. 1000μF/10V(RV)	CEB102ELN005
C571	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C580	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C601	CAP ELE 085 47μF/400V/M/SE	CEH4700S6011
C602	CAP ELE 085 47μF/400V/M/SE	CEH4700S6011
C603	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C605	CHIP ELECTROLYTIC CAP. 47μF/50V M or	CA1J470SP062
	CHIP ELECTROLYTIC CAP. 47μF/50V M(MS) or	CA1J470FEN02
	ELECTROLYTIC CAP. 47μF/50V(RV3)	CEF470ELN007
C606	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C607	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C608	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C609 	CAP METALIZED FILM 0.22μF/275V/K/PCX2	CTA224PKR009
C611	CERAMIC CAP. 220pF/2KV or	CA3D221PAN04
	CERAMIC CAP. RB 220pF/2KV or	CA3D221TE006
	CERAMIC CAP. BL 220pF/2KV	CA3D221XF003
C612	CHIP ELECTROLYTIC CAP. 47μF/50V M or	CA1J470SP062

Ref. No.	Description	Part No.
	CHIP ELECTROLYTIC CAP. 47μF/50V M(MS) or	CA1J470FEN02
	ELECTROLYTIC CAP. 47μF/50V(RV3)	CEF470ELN007
C613	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
	CAP CHIP 1608 J/C0G/100pF/50V	CHD101EYA030
C614	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C615 	SAFTY CAP. 3300pF/250V or	CCN2EMA0E332
	SAFTY CAP. 3300pF/250V KX or	CA2E332MR101
	SAFETY CAP. 3300pF/250V M	CCN2HMN0E332
C701	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C702	CAP ELE 085 330μF/35V/M/SL	CEF3310S6012
C703	CAP ELE 085 47μF/100V/M/SL	CEK4700S6012
C704	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C706	CHIP CERAMIC CAP.(2125) F Z 0.1μF/50V	CHE1JZ30F105
C707	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C708	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
	CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C709	CHIP ELECTROLYTIC CAP. 1μF/50V M or	CA1J010SP062
	CHIP ELECTROLYTIC CAP. 1μF/50V M(WX) or	CA1J1R0NC181
	CHIP ELECTROLYTIC CAP. 1μF/50V M(MS) or	CA1J1R0FEN02
	ELECTROLYTIC CAP. 1μF/50V(RV2)	CEG010ELN021
C710	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C712	CHIP CAP C2012JB1E474KT or	CHE1EK30B474
	CAP CHIP 2125 K/X7R/0.47μF/25V	CHE474EYA063
C713	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C714	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C715	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C716	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	CAP CHIP 1608 J/C0G/220pF/50V	CHD221EYA030
C717	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C718	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C719	CHIP CERAMIC CAP.(2125) F Z 1μF/50V	CHE1JZ30F105
C720	CHIP CERAMIC CAP.(3216) X7R K 1.0μF/100V	CA2A105MR080
C725	CERAMIC CAP. 220pF/2KV or	CA3D221PAN04
	CERAMIC CAP. RB 220pF/2KV or	CA3D221TE006
	CERAMIC CAP. BL 220pF/2KV	CA3D221XF003
C726	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
	CAP CHIP 1608 J/C0G/100pF/50V	CHD101EYA030
CONNECTORS		
CN501	CONNECTOR B3B-PH-SM4-TBT(LF)(J3PHD03JG028
CN502	FFC CONNECTOR IMSA-9615S-39A-PP-A	JC96J39ER007
CN503	CONNECTOR BASE SIDE 2P B2B-PH-SM4-TBT(LF)(S	J3PHD02JG028
CN601	CONNECTOR BASE SIDE 2P B2B-PH-SM4-TBT(LF)(S	J3PHD02JG028
CN602	CONNECTOR BASE SIDE 2P B2B-PH-SM4-TBT(LF)(S	J3PHD02JG028
CN701	CONNECTOR FFC 6P IMSA-9611S-06Y914	JC96D06ER013
DIODES		
D501	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D503	SCHOTTKY BARRIER DIODE SMD SK37	ND1Z0000SK37
D504	SCHOTTKY BARRIER DIODE SMD SK110TC or	ND1Z0SK110TC
	DIODE SHOTTKY SMD SK1B	ND1Z00SK1BTR
D505	SCHOTTKY BARRIER DIODE SMD SK110TC or	ND1Z0SK110TC
	DIODE SHOTTKY SMD SK1B	ND1Z00SK1BTR
D506	CHIP ZENER DIODE CRZ36(Te85L Q	QD1Z00CRZ36Q

Ref. No.	Description	Part No.
D507	CHIP ZENER DIODE CRZ10(Te85L Q	QD1Z00CRZ10Q
D508	CHIP ZENER DIODE CRZ10(Te85L Q	QD1Z00CRZ10Q
D509	ZENER DIODE SMD TFZGTR4.7B	QD1B00TFZ4R7
D510	CHIP ZENER DIODE CRZ16(Te85L Q	QD1Z00CRZ16Q
D511	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
D512	ZENER DIODE SMD TFZGTR27B	QD1B000TFZ27
D513	CHIP ZENER DIODE CRZ16(Te85L Q	QD1Z00CRZ16Q
D514	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D515	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D516	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D517	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D518	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D519	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D520	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D521	ZENER DIODE SMD TFZGTR5.6B	QD1B00TFZ5R6
D523	ZENER DIODE SMD TFZGTR5.6B	QD1B00TFZ5R6
D525	ZENER DIODE SMD TFZGTR5.6B	QD1B00TFZ5R6
D527	ZENER DIODE SMD TFZGTR6.2B	QD1B00TFZ6R2
D530	DIODE ZENER SMD CRY68(Te85L Q	QD1Z00CRY68Q
D531	DIODE SHOTTKY SB3200BR	NDWZ3200D027
D532	ZENER DIODE SMD TFZGTR4.7B	QD1B00TFZ4R7
D534	SCHOTTKY BARRIER DIODE GDSK16-TR	ND1Z00GDSK16
D535	SCHOTTKY BARRIER DIODE GDSK16-TR	ND1Z00GDSK16
D536	CHIP ZENER DIODE CRZ16(Te85L Q	QD1Z00CRZ16Q
D538	SCHOTTKY BARRIER DIODE GDSK16-TR	ND1Z00GDSK16
D539	CHIP ZENER DIODE CRZ18(Te85L Q	QD1Z00CRZ18Q
D540	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D541	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D542	CHIP ZENER DIODE CRZ16(Te85L Q	QD1Z00CRZ16Q
D543	CHIP ZENER DIODE CRZ12(Te85L Q	QD1Z00CRZ12Q
D544	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D545	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST

Ref. No.	Description	Part No.
D546	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D547	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
D548	DIODE SHOTTKY SB3200BR	NDWZ3200D027
D550	IC SHUNT REGULATOR AS431BKTR-E1 or	NSCA07BCD032
	IC SHUNT REGULATOR MM1431CNRE	QSCA070MM614
D551	ZENER DIODE SMD TFZGTR12B	QD1B000TFZ12
D552	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D553	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D554	ZENER DIODE SMD TFZGTR15A	QD1A000TFZ15
D555	SCHOTTKY BARRIER DIODE SMD SK37	ND1Z0000SK37
D601	CHIP ZENER DIODE CRZ11(Te85L Q	QD1Z00CRZ11Q
D602	CHIP ZENER DIODE CRZ27(Te85L Q	QD1Z00CRZ27Q
D603	SCHOTTKY BARRIER DIODE GDSK16-TR	ND1Z00GDSK16
D604	DIODE FAST RECOVERY RS1GJTB or	ND1Z0RS1GJTB
	DIODE FAST RECOVERY SMD GR1G	ND1Z00GR1GTR
D605	DIODE FAST RECOVERY RS1GJTB or	ND1Z0RS1GJTB
	DIODE FAST RECOVERY SMD GR1G	ND1Z00GR1GTR
D606	DIODE FAST RECOVERY RS1GJTB or	ND1Z0RS1GJTB
	DIODE FAST RECOVERY SMD GR1G	ND1Z00GR1GTR
D607	CHIP ZENER DIODE CRZ18(Te85L Q	QD1Z00CRZ18Q
D609	DIODE ZENER 1ZB240-YBB	NDWZ01ZB240Y
D610	DIODE ZENER 1ZB220-YBB	NDWZ01ZB220Y
D611	SCHOTTKY BARRIER DIODE GDSK16-TR	ND1Z00GDSK16
D613	DIODE FAST RECOVERY RS1GJTB or	ND1Z0RS1GJTB
	DIODE FAST RECOVERY SMD GR1G	ND1Z00GR1GTR
D614	DIODE 1N5399BE or	NDL1001N5399
	DIODE 1N5399-B/P	NDLZ001N5399
D615	DIODE 1N5399BE or	NDL1001N5399
	DIODE 1N5399-B/P	NDLZ001N5399
D616	DIODE 1N5399BE or	NDL1001N5399
	DIODE 1N5399-B/P	NDLZ001N5399
D617	DIODE 1N5399BE or	NDL1001N5399
	DIODE 1N5399-B/P	NDLZ001N5399
D618	CHIP ZENER DIODE CRZ27(Te85L Q	QD1Z00CRZ27Q
D619	ZENER DIODE SMD TFZGTR24B	QD1B000TFZ24
D701	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D702	DIODE SK16-T/R or	ND1Z0000SK16
	SCHOTTKY DIODE RB160L-60 TE-25	QQ1ZRB160L60
D703	SCHOTTKY BARRIER DIODE SMD SK110TC or	ND1Z0SK110TC
	DIODE SHOTTKY SMD SK1B	ND1Z00SK1BTR
D704	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D705	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D706	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST

Ref. No.	Description	Part No.
D707	SWITCHING DIODE 1SS400 TE61 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E or	QD1Z00HSC119
	DIODE SWITCHING SMD 1SS400ST(SOD-523)	ND1Z1SS400ST
D708	CHIP ZENER DIODE CRZ36(TE85L Q	QD1Z00CRZ36Q
ICS		
IC501	IC REGULATOR MM1855ATRE	QSCA0T0MM658
IC502	IC DCDC CONVERTER MP2303ADNLFZ/ SOIC8N/	NSCA0T09M004
IC503	IC DCDC CONVERTER MP2303ADNLFZ/ SOIC8N/	NSCA0T09M004
IC504	IC REGULATOR MM3123DPRE	QSCA0T0MM108
IC601△	PHOTOCOUPLER PS2561L2-1-V-E3-A(L) or	QP2LPS2561L2
△	PHOTOCOUPLER LTV817S-TP-V-C	NP2CLTV817SV
IC602	IC SWITING FA5571N-D1-TE1/SOP-8	QSCA0T0FD003
IC701	IC INVERTER CONTROLLER OZ9967RN-B-0-TR/TSSO	NSCA0TTCM003
COILS		
L501	COIL DRUM CW68904080 1200μH or	LLED0P0KV007
	COIL DRUM PWC0608B-122KB 1200U	LLED0ASSN001
L502	CHIP INDUCTOR FBMH1608HM600-T	LLC600NTU037
L503	CHIP INDUCTOR FBMH1608HM600-T	LLC600NTU037
L504	CHIP INDUCTOR FBMH1608HM600-T	LLC600NTU037
L505	COIL NR8040T220M or	LLF2200TU002
	COIL SMD SWPA8040S220MTF/22μH or	LLF220SSN020
	COIL POWER LZ.9A220.A0P	LLF220DAR001
L506	COIL SMD SWPA8040S101MT/100μH or	LLF101SSN020
	COIL NR8040T101M 100μH or	LLF1010TU002
	COIL POWER LZ.9A101.A0P	LLF101DAR001
L601△	LINE FILTER JLB1860/18.0MH	LLEG020XB016
L602	CHIP INDUCTOR FBMH1608HM600-T	LLC600NTU037
L603	CHIP INDUCTOR FBMH1608HM600-T	LLC600NTU037
L701	CHIP INDUCTOR FBMH1608HM600-T	LLC600NTU037
L702	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLFE0S0XM002
L703	COIL POWER INDUCTORS DIP RCR1010NP-470M/47μH or	LLF4700SF012
	COIL DRUM CP1010902909/47μH	LLED0P0KV005
TRANSISTORS		
Q501	PNP TRANSISTOR SMD 2SA1576UBTLQ or	QQ1Q2SA1576U
	PNP TRANSISTOR SMD 2SA1576UBTLR	QQ1R2SA1576U
Q502	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q503	CHIP TRANSISTOR 2SC2412K(R) T146 or	QQ8R2SC2412K
	CHIP TRANSISTOR 2SC2412K T146R	QQ1R2SC2412K
Q504	CHIP TRANSISTOR 2SC2412K(R) T146 or	QQ8R2SC2412K
	CHIP TRANSISTOR 2SC2412K T146R	QQ1R2SC2412K
Q505	CHIP TRANSISTOR 2SC2412K(R) T146 or	QQ8R2SC2412K
	CHIP TRANSISTOR 2SC2412K T146R	QQ1R2SC2412K
Q506	CHIP TRANSISTOR 2SC2412K(R) T146 or	QQ8R2SC2412K
	CHIP TRANSISTOR 2SC2412K T146R	QQ1R2SC2412K
Q507	CHIP TRANSISTOR 2SC2412K(R) T146 or	QQ8R2SC2412K
	CHIP TRANSISTOR 2SC2412K T146R	QQ1R2SC2412K
Q508	CHIP TRANSISTOR 2SA1037AK T146R or	QQ1R2SA1037A
	CHIP TRANSISTOR 2SA1037AK T146S	QQ1S2SA1037A
Q509	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154

Ref. No.	Description	Part No.
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q510	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q511	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q512	FET SSM3K7002F(T5L F T	QF1Z3K7002FF
Q513	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q514	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q515	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q516	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q517	PNP TRANSISTOR SMD 2SA1576UBTLQ or	QQ1Q2SA1576U

Ref. No.	Description	Part No.
	PNP TRANSISTOR SMD 2SA1576UBTLR or	QQ1R2SA1576U
	TRANSISTOR KTA2014-GR-RTK/P or	NQ14KTA2014P
	PNP TRANSISTOR ISA1602AM1-T111U-1E or	QQ1E1SA1602A
	PNP TRANSISTOR ISA1602AM1-T111U-1F or	QQ1F1SA1602A
	PNP TRANSISTOR SMD 2SA1980UFO or	NQ102SA1980U
	PNP TRANSISTOR SMD 2SA1980UFY or	NQ1Y2SA1980U
	PNP TRANSISTOR SMD 2SA1980UFG or	NQ1G2SA1980U
	PNP TRANSISTOR SMD 2SA1980UFL	NQ1L2SA1980U
Q518	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q601	NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
	NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
	TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
	NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
	NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
	NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
	NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
	NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
	NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q602	FET MOS TK6A65D(LS1FND Q)	QFWZTK6A65DL
Q603	FET 2SK3498(T6L1FUNANQ) or	QF1Z02SK3498
	FET POWER MOS SMD KHB1D0N60D-RTF/PMC	NF1ZKHB1D0N6
Q604	PNP TRANSISTOR SMD 2SA1576UBTLQ or	QQ1Q2SA1576U
	PNP TRANSISTOR SMD 2SA1576UBTLR or	QQ1R2SA1576U
	TRANSISTOR KTA2014-GR-RTK/P or	NQ14KTA2014P
	PNP TRANSISTOR ISA1602AM1-T111U-1E or	QQ1E1SA1602A
	PNP TRANSISTOR ISA1602AM1-T111U-1F or	QQ1F1SA1602A
	PNP TRANSISTOR SMD 2SA1980UFO or	NQ102SA1980U
	PNP TRANSISTOR SMD 2SA1980UFY or	NQ1Y2SA1980U
	PNP TRANSISTOR SMD 2SA1980UFG or	NQ1G2SA1980U
	PNP TRANSISTOR SMD 2SA1980UFL	NQ1L2SA1980U
Q701	FUELD EFFECT TRANSISTOR 2SK3482-Z	QF1ZK3482ZAZ
Q702	TRANSISTOR KTA1661-Y-RTF/P or	NQ1YKTA1661P
	TRANSISTOR 2SA1201-Y	QQ1Y2SA1201C
Q703	TRANSISTOR KTA1661-Y-RTF/P or	NQ1YKTA1661P
	TRANSISTOR 2SA1201-Y	QQ1Y2SA1201C
Q704	TRANSISTOR KTA1661-Y-RTF/P or	NQ1YKTA1661P
	TRANSISTOR 2SA1201-Y	QQ1Y2SA1201C
Q705	TRANSISTOR KTA1661-Y-RTF/P or	NQ1YKTA1661P
	TRANSISTOR 2SA1201-Y	QQ1Y2SA1201C
RESISTORS		
R502	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 68 Ω or	RRXA680YF002
	RES CHIP 1608 1/10W J 68 Ω	RRJ680WAL002
R504	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R505	RES CHIP 3216 1/4W J 220 Ω or	RRX4JR7Z0221
	RES CHIP 3216 1/4W J 220 Ω	RRX4221YF004
R506	CHIP RES. 1/4W J 1.5k Ω or	RRX4JR7Z0152
	RES CHIP 3216 1/4W J 1.5k Ω or	RRX4152YF004
	RES CHIP 3216 1/4W J 1.5k Ω	RRX4152HH034
R507	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R508	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω or	RRXA472YF002

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472WAL002
R509	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
	RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R510	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω or	RRXA682YF002
	RES CHIP 1608 1/10W J 6.8k Ω	RRJ682WAL002
R511	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
	RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R512	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 68 Ω or	RRXA680YF002
	RES CHIP 1608 1/10W J 68 Ω	RRJ680WAL002
R513	CHIP RES. 1/4W J 22 Ω or	RRX4JR7Z0220
	RES CHIP 3216 1/4W J 22 Ω or	RRX4220YF004
	RES CHIP 3216 1/4W J 22 Ω	RRX4220HH034
R514	CHIP RES. 1/4W J 22 Ω or	RRX4JR7Z0220
	RES CHIP 3216 1/4W J 22 Ω or	RRX4220YF004
	RES CHIP 3216 1/4W J 22 Ω	RRX4220HH034
R515	CHIP RES. 1/4W J 22 Ω or	RRX4JR7Z0220
	RES CHIP 3216 1/4W J 22 Ω or	RRX4220YF004
	RES CHIP 3216 1/4W J 22 Ω	RRX4220HH034
R516	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R517	CHIP RES RMC1/8-331JTP or	RRX4JR7Z0331
	RES CHIP 3216 1/4W J 330 Ω or	RRX4331YF004
	RES CHIP 3216 1/4W J 330 Ω	RRX4331HH034
R518	CHIP RES RMC1/8-331JTP or	RRX4JR7Z0331
	RES CHIP 3216 1/4W J 330 Ω or	RRX4331YF004
	RES CHIP 3216 1/4W J 330 Ω	RRX4331HH034
R519	CHIP RES RMC1/8-331JTP or	RRX4JR7Z0331
	RES CHIP 3216 1/4W J 330 Ω or	RRX4331YF004
	RES CHIP 3216 1/4W J 330 Ω	RRX4331HH034
R520	CHIP RES. 1/4W J 33 Ω or	RRX4JR7Z0330
	RES CHIP 3216 1/4W J 33 Ω or	RRX4330YF004
	RES CHIP 3216 1/4W J 33 Ω	RRX4330HH034
R521	CHIP RES. 1/4W J470 Ω or	RRX4JR7Z0471
	RES CHIP 3216 1/4W J 470 Ω or	RRX4471YF004
	RES CHIP 3216 1/4W J 470 Ω	RRX4471HH034
R522	CHIP RES. 1/4W J470 Ω or	RRX4JR7Z0471
	RES CHIP 3216 1/4W J 470 Ω or	RRX4471YF004
	RES CHIP 3216 1/4W J 470 Ω	RRX4471HH034
R523	RES CHIP 3216 1/4W J 220 Ω or	RRX4JR7Z0221
	RES CHIP 3216 1/4W J 220 Ω	RRX4221YF004
R524	CHIP RES. 1/4W J 3.9k Ω or	RRX4JR7Z0392
	RES CHIP 3216 1/4W J 3.9k Ω or	RRX4392YF004
	RES CHIP 3216 1/4W J 3.9k Ω	RRX4392HH034
R525	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
R526	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
R527	CHIP RES. 1/4W J 3.9 Ω or	RRX4JR7Z03R9
	RES CHIP 3216 1/4W J 3.9 Ω or	RRX43R9YF004
	RES CHIP 3216 1/4W J 3.9 Ω	RRX43R9HH034
R528	CHIP RES. 1/4W J 3.9 Ω or	RRX4JR7Z03R9
	RES CHIP 3216 1/4W J 3.9 Ω or	RRX43R9YF004
	RES CHIP 3216 1/4W J 3.9 Ω	RRX43R9HH034
R529	CHIP RES. 1/4W J 3.9 Ω or	RRX4JR7Z03R9
	RES CHIP 3216 1/4W J 3.9 Ω or	RRX43R9YF004
	RES CHIP 3216 1/4W J 3.9 Ω	RRX43R9HH034
R530	CHIP RES. 1/4W J 10 Ω or	RRX4JR7Z0100
	RES CHIP 3216 1/4W J 10 Ω or	RRX4100YF004
	RES CHIP 3216 1/4W J 10 Ω	RRX4100HH034
R531	CHIP RES. 1/10W F 4.3k Ω or	RRXAFR5H4301
	CHIP RES.(1608) 1/10W F 4.3k Ω or	RRXAFR5Z4301
	RES CHIP 1608 1/10W F 4.30k Ω	RTW4301YF002

Ref. No.	Description	Part No.
R532	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R533	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R534	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω or	RRXA152YF002
	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152WAL002
R535	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω or	RRXA152YF002
	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152WAL002
R536	CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
	RES CHIP 1608 1/10W J 330 Ω or	RRXA331YF002
	RES CHIP 1608 1/10W J 330 Ω	RRJ331WAL002
R537	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
	RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R538	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω or	RRXA222YF002
	RES CHIP 1608 1/10W J 2.2k Ω	RRJ222WAL002
R539	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω or	RRXA222YF002
	RES CHIP 1608 1/10W J 2.2k Ω	RRJ222WAL002
R540	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
	RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R541	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R542	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω or	RRXA152YF002
	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152WAL002
R543	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω or	RRXA152YF002
	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152WAL002
R544	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω or	RRXA272YF002
	RES CHIP 1608 1/10W J 2.7k Ω	RRJ272WAL002
R545	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω or	RRXA183YF002
	RES CHIP 1608 1/10W J 18k Ω	RRJ183WAL002
R546	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
	RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R547	CHIP RES.(1608) 1/10W J 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R548	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
	RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R549	CHIP RES. 1/10W F 130k Ω or	RRXAFR5H1303
	CHIP RES. 1/10W F 130k Ω or	RRXAFR5Z0134
	RES CHIP 1608 1/10W F 130k Ω	RTW1303YF002
R550	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R551	CHIP RES. 1/10W F 15k Ω or	RRXAFR5H1502
	CHIP RES. 1/10W F 15k Ω or	RRXAFR5Z0153
	RES CHIP 1608 1/10W F 15.0k Ω	RTW1502YF002
R552	CHIP RES. 1/10W F 15k Ω or	RRXAFR5H1502
	CHIP RES. 1/10W F 15k Ω or	RRXAFR5Z0153
	RES CHIP 1608 1/10W F 15.0k Ω	RTW1502YF002
R553	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
	RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R554	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103


Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R555	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω or	RRXA183YF002
	RES CHIP 1608 1/10W J 18k Ω	RRJ183WAL002
R556	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R557	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
	RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R558	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R559	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω or	RRXA682YF002
	RES CHIP 1608 1/10W J 6.8k Ω	RRJ682WAL002
R560	CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5H3301
	CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5Z3301
	RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R561	CHIP RES. 1/10W F 43.0 k Ω or	RRXAFR5H4302
	RES CHIP 1608 1/10W F 43k Ω or	RRXAFR5Z4302
	RES CHIP 1608 1/10W F 43.0k Ω	RTW4302YF002
R562	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R563	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R564	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R565	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
	RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R566	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R567	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R568	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R569	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
	RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R570	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
	RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R571	CHIP RES. 1/10W F 36k Ω or	RRXAFR5H3602
	CHIP RES. 1/10W F 36k Ω or	RRXAFR5Z0363
	RES CHIP 1608 1/10W F 36.0k Ω	RTW3602YF002
R572	CHIP RES. 1/10W F 11k Ω or	RRXAFR5H1102
	CHIP RES. 1/10W F 11k Ω or	RRXAFR5Z1102
	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102YF002
R575	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R576	CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H5601
	CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5Z0562
	RES CHIP 1608 1/10W F 5.60k Ω	RTW5601YF002
R577	CHIP RES. 1/10W F 18k Ω or	RRXAFR5H1802
	CHIP RES. 1/10W F 18k Ω or	RRXAFR5Z0183
	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802YF002
R578	CHIP RES. 1/10W F 820 Ω or	RRXAFR5H8200
	CHIP RES.(1608) 1/10W F 820 Ω or	RRXAFR5Z8200

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W F 820 Ω	RTW8200YF002
R579	CHIP RES. 1/10W F 27k Ω or	RRXAFR5H2702
	CHIP RES.(1608) 1/10W F 27k Ω or	RRXAFR5Z2702
	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702YF002
R580	CHIP RES. 1/10W F 27k Ω or	RRXAFR5H2702
	CHIP RES.(1608) 1/10W F 27k Ω or	RRXAFR5Z2702
	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702YF002
R581	CHIP RES. 1/10W F 39k Ω or	RRXAFR5H3902
	CHIP RES. 1/10W F 39k Ω or	RRXAFR5Z0393
	RES CHIP 1608 1/10W F 39.0k Ω	RTW3902YF002
R582	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
	RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R583	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω or	RRXA472YF002
	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472WAL002
R584	CHIP RES. 1/10W F 27k Ω or	RRXAFR5H2702
	CHIP RES.(1608) 1/10W F 27k Ω or	RRXAFR5Z2702
	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702YF002
R585	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
	RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R586	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω or	RRXA100YF002
	RES CHIP 1608 1/10W J 10 Ω	RRJ100WAL002
R587	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω or	RRXA100YF002
	RES CHIP 1608 1/10W J 10 Ω	RRJ100WAL002
R589	CHIP RES. 1/4W J 3.9 Ω or	RRX4JR7Z03R9
	RES CHIP 3216 1/4W J 3.9 Ω or	RRX43R9YF004
	RES CHIP 3216 1/4W J 3.9 Ω	RRX43R9HH034
R593	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω or	RRXA105YF002
	RES CHIP 1608 1/10W J 1.0M Ω	RRJ105WAL002
R594	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
R597	CHIP RES. 1/4W J 100 Ω or	RRX4JR7Z0101
	RES CHIP 3216 1/4W J 100 Ω or	RRXA101YF004
	RES CHIP 3216 1/4W J 100 Ω	RRX4101HH034
R598	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω or	RRXA183YF002
	RES CHIP 1608 1/10W J 18k Ω	RRJ183WAL002
R599	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
	RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R601	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
R602	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
R604	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R605	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R606	RES CHIP 3216 1/4W J 2.7M Ω or	RRX4275HH034
	CHIP RES. 1/4W J 2.7M Ω or	RRX4JR7Z0275
	RES CHIP 3216 1/4W J 2.7M Ω	RRX4275YF004
R607	RES CHIP 3216 1/4W J 2.7M Ω or	RRX4275HH034
	CHIP RES. 1/4W J 2.7M Ω or	RRX4JR7Z0275
	RES CHIP 3216 1/4W J 2.7M Ω	RRX4275YF004
R608	RES CHIP 3216 1/4W J 2.7M Ω or	RRX4275HH034
	CHIP RES. 1/4W J 2.7M Ω or	RRX4JR7Z0275
	RES CHIP 3216 1/4W J 2.7M Ω	RRX4275YF004
R609	RES CHIP 3216 1/4W J 2.7M Ω or	RRX4275HH034
	CHIP RES. 1/4W J 2.7M Ω or	RRX4JR7Z0275
	RES CHIP 3216 1/4W J 2.7M Ω	RRX4275YF004

Ref. No.	Description	Part No.
R610	CHIP RES. 1/4W J 22KOHM or	RRX4JR7Z0223
	RES CHIP 3216 1/4W J 22k Ω or	RRX4223YF004
	RES CHIP 3216 1/4W J 22k Ω	RRX4223HH034
R611	CHIP RES. 1/4W J 33 Ω or	RRX4JR7Z0330
	RES CHIP 3216 1/4W J 33 Ω or	RRX4330YF004
	RES CHIP 3216 1/4W J 33 Ω	RRX4330HH034
R612	CHIP RES. 1/4W J 27 Ω or	RRX4JR7Z0270
	RES CHIP 3216 1/4W J 27 Ω or	RRX4270YF004
	RES CHIP 3216 1/4W J 27 Ω	RRX4270HH034
R613	CHIP RES. 1/4W J 33 Ω or	RRX4JR7Z0330
	RES CHIP 3216 1/4W J 33 Ω or	RRX4330YF004
	RES CHIP 3216 1/4W J 33 Ω	RRX4330HH034
R614	CHIP RES. 1/3W F 0.13 Ω or	RTR1300KA008
	CHIP RES 3216 1/2W F 0.13 Ω or	RTR1300KE001
	RES CHIP 3216 1/4W F 0.13 Ω	RTR1300YF003
R615	CHIP RES. 1/4W J 22KOHM or	RRX4JR7Z0223
	RES CHIP 3216 1/4W J 22k Ω or	RRX4223YF004
	RES CHIP 3216 1/4W J 22k Ω	RRX4223HH034
R616	CHIP RES. 1/4W J 22KOHM or	RRX4JR7Z0223
	RES CHIP 3216 1/4W J 22k Ω or	RRX4223YF004
	RES CHIP 3216 1/4W J 22k Ω	RRX4223HH034
R617	CHIP RES. 1/4W J 22KOHM or	RRX4JR7Z0223
	RES CHIP 3216 1/4W J 22k Ω or	RRX4223YF004
	RES CHIP 3216 1/4W J 22k Ω	RRX4223HH034
R618	RES CEMENT 5W J 2.7 Ω	RWJ2R7PAK007
R619	CHIP RES. 1/3W F 0.13 Ω or	RTR1300KA008
	CHIP RES 3216 1/2W F 0.13 Ω or	RTR1300KE001
	RES CHIP 3216 1/4W F 0.13 Ω	RTR1300YF003
R621	CHIP RES. 1/3W F 0.15 Ω or	RTR1500KA008
	CHIP RES 3216 1/2W F 0.15 Ω or	RTR1500KE001
	RES CHIP 3216 1/4W F 0.15 Ω	RTR1500YF003
R622	CHIP RES. 1/3W F 0.15 Ω or	RTR1500KA008
	CHIP RES 3216 1/2W F 0.15 Ω or	RTR1500KE001
	RES CHIP 3216 1/4W F 0.15 Ω	RTR1500YF003
R625	GLASS GLAZE RES. 1/2W J 3.3M Ω or	RXX2JZLZ0335
△	RES. CARBON FILM J 1/2W J 3.3M Ω	RCX2335T1003
R626	CHIP RES. 1/10W J 180 Ω or	RRXAJR5Z0181
	RES CHIP 1608 1/10W J 180 Ω or	RRXA181YF002
	RES CHIP 1608 1/10W J 180 Ω	RRJ181WAL002
R627	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω or	RRJ100WAL002
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R628	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω or	RRXA472YF002
	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472WAL002
R630	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω or	RRXA330YF002
	RES CHIP 1608 1/10W J 33 Ω	RRJ330WAL002
R632	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω or	RRXA333YF002
	RES CHIP 1608 1/10W J 33k Ω	RRJ333WAL002
R633	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω or	RRXA123YF002
	RES CHIP 1608 1/10W J 12k Ω	RRJ123WAL002
R634	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω or	RRXA222YF002
	RES CHIP 1608 1/10W J 2.2k Ω	RRJ222WAL002
R635	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω or	RRXA222YF002
	RES CHIP 1608 1/10W J 2.2k Ω	RRJ222WAL002
R636	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω or	RRXA822YF002
	RES CHIP 1608 1/10W J 8.2k Ω	RRJ822WAL002
R651	RES CHIP 3216 1/4W J 220 Ω or	RRX4JR7Z0221
	RES CHIP 3216 1/4W J 220 Ω	RRX4221YF004
R652	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R654	CHIP RES.(3216) 1/4W J 0 Ω or	RRXAJR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRXA4000YF004
R701	CHIP RES. 1/4W J470 Ω or	RRXA4JR7Z0471
	RES CHIP 3216 1/4W J 470 Ω or	RRXA4471YF004
	RES CHIP 3216 1/4W J 470 Ω	RRXA4471HH034
R702	CHIP RES. 1/4W F 3.9 Ω or	RRXA4FR7Z3R90
	RES CHIP 3216 1/4W F 3.9 Ω	RTC3R90YF004
R703	CHIP RES. 1/4W F 2.2 Ω or	RRXA4FR7Z2R20
	RES CHIP 3216 1/4W F 2.2 Ω	RTC2R20YF004
R704	CHIP RES. 1/4W F 3.9 Ω or	RRXA4FR7Z3R90
	RES CHIP 3216 1/4W F 3.9 Ω	RTC3R90YF004
R705	CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
	RES CHIP 1608 1/10W J 22 Ω or	RRXA220YF002
	RES CHIP 1608 1/10W J 22 Ω	RRJ220WAL002
R706	CHIP RES. 1/4W F 3.9 Ω or	RRXA4FR7Z3R90
	RES CHIP 3216 1/4W F 3.9 Ω	RTC3R90YF004
R707	CHIP RES. 1/4W F 2.2 Ω or	RRXA4FR7Z2R20
	RES CHIP 3216 1/4W F 2.2 Ω	RTC2R20YF004
R708	CHIP RES. 1/4W F 3.9 Ω or	RRXA4FR7Z3R90
	RES CHIP 3216 1/4W F 3.9 Ω	RTC3R90YF004
R709	CHIP RES. 1/4W F 2.2 Ω or	RRXA4FR7Z2R20
	RES CHIP 3216 1/4W F 2.2 Ω	RTC2R20YF004
R710	CHIP RES. 1/4W F 2.2 Ω or	RRXA4FR7Z2R20
	RES CHIP 3216 1/4W F 2.2 Ω	RTC2R20YF004
R711	CHIP RES. 1/3W F 0.12 Ω or	RTR1200KA008
	CHIP RES 3216 1/2W F 0.12 Ω or	RTR1200KE001
	RES CHIP 3216 1/4W F 0.12 Ω	RTR1200YF003
R712	CHIP RES. 1/3W F 0.12 Ω or	RTR1200KA008
	CHIP RES 3216 1/2W F 0.12 Ω or	RTR1200KE001
	RES CHIP 3216 1/4W F 0.12 Ω	RTR1200YF003
R713	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
	RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R714	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R715	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
	RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R716	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R717	CHIP RES.(1608) 1/10W F 560k Ω or	RRXAFR5Z5603
	RES CHIP 1608 1/10W F 560k Ω or	RTW5603YF002
	CHIP RES. 1/10W F 560 k Ω	RRXAFR5H5603
R718	CHIP RES. 1/10W F 27k Ω or	RRXAFR5H2702
	CHIP RES.(1608) 1/10W F 27k Ω or	RRXAFR5Z2702
	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702YF002
R719	CHIP RES.(1608) 1/10W F 1k Ω or	RRXAFR5H0102
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z0102
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R720	CHIP RES. 1/10W F 20k Ω or	RRXAFR5H2002
	CHIP RES. 1/10W F 20k Ω or	RRXAFR5Z2002
	RES CHIP 1608 1/10W F 20.0k Ω	RTW2002YF002
R721	CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
	RES CHIP 1608 1/10W J 22 Ω or	RRXA220YF002
	RES CHIP 1608 1/10W J 22 Ω	RRJ220WAL002
R722	CHIP RES. 1/10W F 100k Ω or	RRXAFR5H1003
	CHIP RES. 1/10W F 100k Ω or	RRXAFR5Z1003
	RES CHIP 1608 1/10W F 100k Ω	RTW1003YF002
R723	CHIP RES. 1/10W F 8.2k Ω or	RRXAFR5H8201
	CHIP RES.(1608) 1/10W F 8.2k Ω or	RRXAFR5Z8201
	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201YF002
R724	CHIP RES. 1/10W F 360 k Ω or	RRXAFR5H3603
	CHIP RES. 1/10W F 360 k Ω or	RRXAFR5Z0364
	RES CHIP 1608 1/10W F 360k Ω	RTW3603YF002

Ref. No.	Description	Part No.
R725	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R726	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R727	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R728	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
	RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R729	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω or	RRXA105YF002
	RES CHIP 1608 1/10W J 1.0M Ω	RRJ105WAL002
R730	CHIP RES. 1/10W J 56k Ω or	RRXAJR5Z0563
	RES CHIP 1608 1/10W J 56k Ω or	RRXA563YF002
	RES CHIP 1608 1/10W J 56k Ω	RRJ563WAL002
R731	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
	RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R732	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R733	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R734	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R735	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R736	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R737	CHIP RES. 1/10W J 330k Ω or	RRXAJR5Z0334
	RES CHIP 1608 1/10W J 330k Ω or	RRXA334YF002
	RES CHIP 1608 1/10W J 330k Ω	RRJ334WAL002
R738	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R739	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R740	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R741	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R742	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R743	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R744	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R745	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
MISCELLANEOUS		
AC601 	AC CORD W/O A GND WIRE CEE/1710MM/NO/BLACK	WAE1720LW005
B26	HEAT SINK PNH A0CN6EP	1EM329979

Ref. No.	Description	Part No.
BC601	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC602	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC603	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
F501	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
F502	FUSE CHIP FMC16102AHTP	PDDFMC0KE102
F503	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
F601 	FUSE 4A/250V(PB FREE) 0215004.MXP	PBGZ20BAG021
FH601	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH602	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
L17	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
JW501	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
JW502	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
JW504	CHIP RES.(3216) 1/4W J 0 Ω or	RRX4JR7Z0000
	RES CHIP 3216 1/4W J 0 Ω	RRX4000YF004
SA601 	SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
	VARIATOR 10D 471K SVR or	NVQZVR10D471
	VARIATOR/Q TVR10471KS42Y	NVQKTVR10471
T601 	TRANS POWER BCK-35-0854	LTT3PE0XB065
TM601	EYELET TYPE D-1	0VM406868
TM602	EYELET TYPE D-1	0VM406868

JACK ASSEMBLY

Ref. No.	Mark	Description	Part No.
	A B	JACK ASSEMBLY JACK ASSEMBLY Consists of the following:	A0C76MJC-001 A0C77MJC-001
		JACK CBA FUNCTION CBA IR SENSOR CBA	----- ----- -----

JACK CBA

Ref. No.	Mark	Description	Part No.
		JACK CBA Consists of the following:	-----
CAPACITORS			
C10		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
C12		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		JACK CBA	RRJ000WAL002
C17		FUNCTION CBA	CHD1JJ3CH101
		IR SENSOR CBA	CHD101EYA030
C19		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
C22		ELECTROLYTIC CAP. 100μF/10V M H7 or	CE1AMAVSL101
		CAP ELE 100μF/10V/M/85 H7	CEB101KSN003
C23		CHIP CERAMIC CAP. F Z 1μF/10V or	CHD1AZ30F105
		CAP CHIP 1608 Z/Y5V/1μF/10V	CHD105EYA052
C24		CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/50V	CHD101EYA030
C25		CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C27		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
C28		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
C121		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C122		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C123		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C201		CHIP CERAMIC CAP.(1608) B K 1μF/10V or	CHD1AK30B105
		CAP CHIP 1608 K/X5R/1μF/10V	CHD105EYA048
C202	B	CHIP CERAMIC CAP.(1608) B K 1μF/10V or	CHD1AK30B105
	B	CAP CHIP 1608 K/X5R/1μF/10V	CHD105EYA048
C203	B	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
	B	CAP CHIP 1608 J/C0G/33pF/50V	CHD330EYA030
C221		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/50V	CHD331EYA030
C222		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/50V	CHD331EYA030
C223		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/50V	CHD331EYA030
C224		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/50V	CHD331EYA030
C229		CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
		CAP CHIP 1608 K/X7R/0.047μF/50V	CHD473EYA032
C230		CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
		CAP CHIP 1608 K/X7R/0.047μF/50V	CHD473EYA032
C301		CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/50V	CHD330EYA030
C302		CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/50V	CHD330EYA030
C308		CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/50V	CHD101EYA030
C309		CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/50V	CHD101EYA030
C310		ELECTROLYTIC CAP. 220μF/6.3V M H7 or	CE0KMAVSL221
		CAP ELE 220μF/6.3V/M/85 H7	CEA221KSN003
C317		CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/50V	CHD330EYA030
C318		CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/50V	CHD330EYA030
C325		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/50V	CHD331EYA030
C326		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/50V	CHD331EYA030
C328		CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
		CAP CHIP 1608 J/C0G/47pF/50V	CHD470EYA030
C351		ELECTROLYTIC CAP. 100μF/16V M H7 or	CE1CMAVSL101
		CAP ELE 100μF/16V/M/85 H7	CEC101KSN003
C352		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C353		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C354		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C402		ELECTROLYTIC CAP. 47μF/25V M H7 or	CE1EMAVSL470
		CAP ELE 47μF/25V/M/85 H7	CED470KSN003

Ref. No.	Mark	Description	Part No.
C403		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C405		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C408		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C409		ELECTROLYTIC CAP. 47μF/25V M H7 or	CE1EMAVSL470
		CAP ELE 47μF/25V/M/85 H7	CED470KSN003
C410		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C411		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C412		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C419		ELECTROLYTIC CAP. 47μF/25V M H7 or	CE1EMAVSL470
		CAP ELE 47μF/25V/M/85 H7	CED470KSN003
C801		CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
		CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C802		CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
		CAP CHIP 1608 K/X7R/0.001μF/50V	CHD102EYA032
C803		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C804		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C805		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C806		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C807		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C808		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C809		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C810		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C811		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C812		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C813		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C814		CAP CHIP 3216 B M 10μF/16V or	CA1C106TE143
		CHIP CERAMIC CAP. B K 10μF/16V	CHF1CK30B106
C815		CAP CHIP 3216 B M 10μF/16V or	CA1C106TE143
		CHIP CERAMIC CAP. B K 10μF/16V	CHF1CK30B106
C816		CAP CHIP 3216 B M 10μF/16V or	CA1C106TE143
		CHIP CERAMIC CAP. B K 10μF/16V	CHF1CK30B106
C817		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C818		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
C821		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
C822		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C823		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C824		CAP ELE KR1 220μF/35V/M/85 H9.0	CEM221KSN014
C825		CAP ELE KR1 220μF/35V/M/85 H9.0	CEM221KSN014

Ref. No.	Mark	Description	Part No.
C826		CAP CHIP 3216 B M 10μF/16V or	CA1C106TE143
		CHIP CERAMIC CAP. B K 10μF/16V	CHF1CK30B106
C827		CAP ELE KR1 220μF/35V/M/85 H9.0	CEM221KSN014
C829		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C830		CAP ELE KR1 220μF/35V/M/85 H9.0	CEM221KSN014
C831		CAP ELE KR1 220μF/35V/M/85 H9.0	CEM221KSN014
C901		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C902		ELECTROLYTIC CAP. 220μF/6.3V M H7 or	CE0KMAVSL221
		CAP ELE 220μF/6.3V/M/85 H7	CEA221KSN003
C903		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C904		ELECTROLYTIC CAP. 220μF/6.3V M H7 or	CE0KMAVSL221
		CAP ELE 220μF/6.3V/M/85 H7	CEA221KSN003
C905		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C906		ELECTROLYTIC CAP. 220μF/6.3V M H7 or	CE0KMAVSL221
		CAP ELE 220μF/6.3V/M/85 H7	CEA221KSN003
C907		CAP ELE KR1 220μF/35V/M/85 H9.0	CEM221KSN014
C909		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C910		ELECTROLYTIC CAP. 10μF/50V M H7 or	CE1JMAVSL100
		CAP ELE 10μF/50V/M/85 H7	CEF100KSN003
C913		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C918		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C919		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C920		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C921		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C922		ELECTROLYTIC CAP. 220μF/10V M H7 or	CE1AMAVSL221
		CAP ELE 220μF/10V/M/85 H7	CEB221KSN003
C925		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C926		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C927		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C928		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C929		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
CONNECTORS			
CN103		PH CONNECTOR TOP 6P B6B-PH-K-S (LF)(SN) or	J3PHC06JG029
		CONNECTOR PRINT OSU JS-1125-06(K)	J3JT06CHY001
CN801		CONNECTOR PRINT OSU TOP 2P 440054-2 or	J344C02AP001
		CONNECTOR PRINT OSU JS-1125-02KK or	J3JT02CHY002
		PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN)	J3PHC02JG029

Ref. No.	Mark	Description	Part No.
CN901		FFC CONNECTOR IMSA-9615S-39A-PP-A	JC96J39ER007
CN903		FFC CONNECTOR IMSA-9615S-11A-PP-A or	JC96J11ER007
		CONNECTOR PRINT MES 00 6232 011 006 800+ or	JC62G11UG026
		CONNECTOR PRINT MES 11 S 1.0-11-11P	JC11111JSH001
CN904		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN905		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN906		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN907		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
DIODES			
D106		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDT201N4148F
D303		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D305		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D307		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D309		DIODE ZENER 3V9BSB-T26 or	NDTB3R9BST26
		DIODE ZENER HZS3.9NB2TE-EQ	QDTB0HZS3R9N
D311		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D321		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D322		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D323		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D802		DIODE ZENER 33BSB-T26 or	NDTB033BST26
		DIODE ZENER HZS33NB2TE-EQ	QDTBH33NB2
D803		DIODE ZENER 33BSB-T26 or	NDTB033BST26
		DIODE ZENER HZS33NB2TE-EQ	QDTBH33NB2
ICS			
IC401		IC TL3472CDR or	NSZBA0TTY115
		IC MC34072L-S08-R	QSZBA0TUTC01
IC801		IC D-CLASS POWER AMPLIFIER R2A15122FP-W00R/HQFP	QSCA0T0HT005
COILS			
L11		INDUCTOR 10μH-K-5FT	LLARKBSTU100
L12		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
L13		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
L15		INDUCTOR 1.0μH-H-J-26T	LLAXJATTU010
L201		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001

Ref. No.	Mark	Description	Part No.
		WIRE CP CP0.56	XZ40F0XRC001
L202		INDUCTOR 4.7μH-J-26T	LLAXJATTU4R7
L203		INDUCTOR 4.7μH-J-26T	LLAXJATTU4R7
L801		COIL RADIAL LHLP10NB680M 68μH	LLF6800TU003
L802		COIL RADIAL LHLP10NB680M 68μH	LLF6800TU003
L803		INDUCTOR 22μH-J-26T	LLAXJATTU220
L903		INDUCTOR 0.22μH-H-J-26T	LLAXJATTUR22
L904		INDUCTOR 0.22μH-H-J-26T	LLAXJATTUR22
L905		INDUCTOR 0.22μH-H-J-26T	LLAXJATTUR22
TRANSISTORS			
Q101		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(Te2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q352		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(Te2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q401		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q402		TRANSISTOR 2SC2655-Y(Te6 F M)	QQSY2SC2655F
Q403		TRANSISTOR 2SA1020-Y(Te6 F M) or	QQSY2SA1020F
		TRANSISTOR KTA1281-Y-AT/P	NQVYKTA1281P
Q802		NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
		NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
		TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
		NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154
		NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
		NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
		NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
		NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
		NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
		NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q803		CHIP TRANSISTOR KTA1504S-Y-RTK/P or	NQ1YKTA1504S
		CHIP TRANSISTOR KTA1504S-GR-RTK/P or	NQ14KTA1504S
		PNP TRANSISTOR SMD 2SA1980SFY or	NQ1Y2SA1980S
		PNP TRANSISTOR SMD 2SA1980SFG or	NQ1G2SA1980S
		PNP TRANSISTOR EPITAXIAL SMD ISA1530AC1-T112U-1Q	QQ1Q1SA1530A
Q804		NPN TRANSISTOR SMD 2SC4081UBTLQ or	QQ1Q2SC4081U
		NPN TRANSISTOR SMD 2SC4081UBTLR or	QQ1R2SC4081U
		TRANSISTOR KTC4075-GR-RTK/P or	NQ14KTC4075P
		NPN TRANSISTORS 2SC4154-T111-1E or	QQ1E02SC4154

Ref. No.	Mark	Description	Part No.
		NPN TRANSISTORS 2SC4154-T111-1F or	QQ1F02SC4154
		NPN TRANSISTORS 2SC4154-T111-1G or	QQ1G02SC4154
		NPN TRANSISTOR SMD 2SC5343UFO or	NQ102SC5343U
		NPN TRANSISTOR SMD 2SC5343UFY or	NQ1Y2SC5343U
		NPN TRANSISTOR SMD 2SC5343UFG or	NQ1G2SC5343U
		NPN TRANSISTOR SMD 2SC5343UFL	NQ1L2SC5343U
Q805		CHIP TRANSISTOR KTA1504S-Y-RTK/P or	NQ1YKTA1504S
		CHIP TRANSISTOR KTA1504S-GR-RTK/P or	NQ14KTA1504S
		PNP TRANSISTOR SMD 2SA1980SFY or	NQ1Y2SA1980S
		PNP TRANSISTOR SMD 2SA1980SFG or	NQ1G2SA1980S
		PNP TRANSISTOR EPITAXIAL SMD ISA1530AC1-T112U-1Q	QQ1Q1SA1530A
RESISTORS			
R10		CHIP RES. 1/10W J 56 Ω or	RRXAJR5Z0560
		RES CHIP 1608 1/10W J 56 Ω or	RRXA560YF002
		RES CHIP 1608 1/10W J 56 Ω	RRJ560WAL002
R11		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R13		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R21		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R22		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω or	RRXA123YF002
		RES CHIP 1608 1/10W J 12k Ω	RRJ123WAL002
R25		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R26		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R27		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R28		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R29		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R33		CHIP RES. 1/10W J 270 Ω or	RRXAJR5Z0271
		RES CHIP 1608 1/10W J 270 Ω or	RRXA271YF002
		RES CHIP 1608 1/10W J 270 Ω	RRJ271WAL002
R102		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
		RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R121		CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
		RES CHIP 1608 1/10W J 10 Ω or	RRXA100YF002
		RES CHIP 1608 1/10W J 10 Ω	RRJ100WAL002
R122		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R123		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R201	B	RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
	B	RES CARBON FILM 1/4W J 270 Ω or	RCX4271FS002
	B	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001
R202		RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001

Ref. No.	Mark	Description	Part No.
		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R203	B	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	B	RES CHIP 1608 1/10W J 1.8k Ω or	RRXA182YF002
	B	RES CHIP 1608 1/10W J 1.8k Ω	RRJ182WAL002
R204		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R206		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R208		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R210		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R227		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω or	RCX4153FS002
		RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R228		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω or	RCX4153FS002
		RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R229		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω or	RCX4153FS002
		RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R230		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω or	RCX4153FS002
		RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R234		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R235		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R238		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R239		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R240		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R241		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R311		RES CARBON FILM T 1/4W J 560 Ω or	RCX4561T1001
		RES CARBON FILM 1/4W J 560 Ω or	RCX4561FS002
		RES CARBON FILM 1/4W J 560 Ω	RCJ561PAK001
R313		RES CARBON FILM T 1/4W J 560 Ω or	RCX4561T1001
		RES CARBON FILM 1/4W J 560 Ω or	RCX4561FS002
		RES CARBON FILM 1/4W J 560 Ω	RCJ561PAK001
R315		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R316		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R317		RES CARBON FILM T 1/4W J 6.8k Ω or	RCX4682T1001
		RES CARBON FILM 1/4W J 6.8k Ω or	RCX4682FS002

Ref. No.	Mark	Description	Part No.
		RES CARBON FILM 1/4W J 6.8k Ω	RCJ682PAK001
R318		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω or	RRXA222YF002
		RES CHIP 1608 1/10W J 2.2k Ω	RRJ222WAL002
R319		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
R320		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R321		RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
		RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
		RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R322		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
R323		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R324		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
R326		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
R327		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R331		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω or	RCX4153FS002
		RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R332		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω or	RCX4153FS002
		RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R342		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R343		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R351		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω or	RRXA122YF002
		RES CHIP 1608 1/10W J 1.2k Ω	RRJ122WAL002
R352		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω or	RRXA122YF002
		RES CHIP 1608 1/10W J 1.2k Ω	RRJ122WAL002
R353		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R354		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R401		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R402		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω or	RRXA153YF002
		RES CHIP 1608 1/10W J 15k Ω	RRJ153WAL002
R403		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R404		CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
		RES CHIP 1608 1/10W J 1.5k Ω or	RRXA152YF002

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 1.5k Ω	RRJ152WAL002
R405		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R406		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
		RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R408		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω or	RCX4100FS002
		RES CARBON FILM 1/4W J 10 Ω	RCJ100PAK001
R409		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω or	RCX4100FS002
		RES CARBON FILM 1/4W J 10 Ω	RCJ100PAK001
R410		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R417		CHIP RES. 1/10W J 1 Ω or	RRXAJR5Z01R0
		RES CHIP 1608 1/10W J 1 Ω or	RRXA1R0YF002
		RES CHIP 1608 1/10W J 1.0 Ω	RRJ1R0WAL002
R420		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R421		CHIP RES. 1/10W J 8.2 Ω or	RRXAJR5Z08R2
		RES CHIP 1608 1/10W J 8.2 Ω or	RRXA8R2YF002
		RES CHIP 1608 1/10W J 8.2 Ω	RRJ8R2WAL002
R802		CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
		RES CHIP 1608 1/10W J 10 Ω or	RRXA100YF002
		RES CHIP 1608 1/10W J 10 Ω	RRJ100WAL002
R803		CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
		RES CHIP 1608 1/10W J 10 Ω or	RRXA100YF002
		RES CHIP 1608 1/10W J 10 Ω	RRJ100WAL002
R804		CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
		RES CHIP 1608 1/10W J 10 Ω or	RRXA100YF002
		RES CHIP 1608 1/10W J 10 Ω	RRJ100WAL002
R806		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R807		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R808		CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
		RES CHIP 1608 1/10W J 27k Ω or	RRXA273YF002
		RES CHIP 1608 1/10W J 27k Ω	RRJ273WAL002
R810		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R811		RES CHIP 1608 1/10W J 560 Ω or	RRXA561YF002
		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω	RRJ561WAL002
R812		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R813		RES CHIP 1608 1/10W J 560 Ω or	RRXA561YF002
		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω	RRJ561WAL002
R814		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R815		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R816		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R817		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002

Ref. No.	Mark	Description	Part No.
R820		CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
		RES CHIP 1608 1/10W J 39k Ω or	RRXA393YF002
		RES CHIP 1608 1/10W J 39k Ω	RRJ393WAL002
R821		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R824		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R825		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R826		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R827		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
		RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R828		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R829		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R931		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
MISCELLANEOUS			
BC301		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC801		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
BC802		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
BC803		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
BC804		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
JK201		JACK HPEP SML PCB S PJ-358H or	JXSJ020YUQ01
		JACK HPEP SML PCB S 02 MSJ-035-29D (ABS)	JXSJ020LY001
JK206		JACK SE HPEP SML PCM S MSJ-035-04A LF or	JYSJ020LY002
		JACK SW HPEP SML PCB S PJ-362H-7	JYSJ020YUQ02
JK207		JACK RCA PCB S GREEN 01/RCA-101H(GN) or	JXRJ010YUQ03
		JACK RCA PCB S(GREEN) 01 MTJ-032-04B-73 FE or	JXRJ010LY030
		JACK RCA PCB S GREEN 01 / RCA-101HF(GN)	JXRJ01YUQ009
JK208		JACK RCA PCB S BLUE 01/RCA-101H(BL) or	JXRJ010YUQ04
		JACK RCA PCB S(BLUE) 01 MTJ-032-04B-74 FE or	JXRJ010LY033
		JACK RCA PCB S BLUE 01 / RCA-101HF(BL)	JXRJ01YUQ010
JK209		JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ010YUQ03
		JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ010LY031
JK210	B	JACK RCA PCB S ORANGE 01/RCA-101H(OR) or	JXRJ010YUQ06
	B	JACK RCA PCB S(ORANGE) 01 MTJ-032-04B-76 FE	JXRJ010LY029

Ref. No.	Mark	Description	Part No.
JK211		JACK RCA PCB S WHITE 01/RCA-101H(WH) or	JXRJ010YUQ02
		JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE or	JXRJ010LY031
		JACK RCA PCB S WHITE 01 / RCA-101HF(WH)	JXRJ01YUQ008
JK212		JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ010YUQ03
		JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ010LY031
JK313		JACK RGB PCB S 01/RGB-11HS	JXGJ21YUQ001
JS804		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
JS805		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001

FUNCTION CBA

Ref. No.	Mark	Description	Part No.
		FUNCTION CBA Consists of the following:	-----
CAPACITORS			
C108		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1 μ F/50V	CHD104EYA036
CONNECTOR			
CN102		WIRE ASSEMBLY 3PIN 3PIN/88MM/AWG28	WX1A0C76-302
RESISTORS			
R110		RES CARBON FILM T 1/4W G 4.7k Ω or	RCX4472T1002
		RES CARBON FILM 1/4W G 4.7k Ω	RCG472PAK001
R111		RES CARBON FILM T 1/4W G 220 Ω or	RCX4221T1002
		RES CARBON FILM 1/4W G 220 Ω	RCG221PAK001
R112		RES CARBON FILM T 1/4W G 1.1k Ω or	RCX4112T1002
		RES CARBON FILM 1/4W G 1.1k Ω	RCG112PAK001
R113		RES CARBON FILM T 1/4W G 1.2k Ω or	RCX4122T1002
		RES CARBON FILM 1/4W G 1.2k Ω	RCG122PAK001
R114		RES CARBON FILM T 1/4W G 1.5k Ω or	RCX4152T1002
		RES CARBON FILM 1/4W G 1.5k Ω	RCG152PAK001
R115		RES CARBON FILM T 1/4W G 3.3k Ω or	RCX4332T1002
		RES CARBON FILM 1/4W G 3.3k Ω	RCG332PAK001
R116		RES CARBON FILM T 1/4W G 8.2k Ω or	RCX4822T1002
		RES CARBON FILM 1/4W G 8.2k Ω	RCG822PAK001
R120		CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
		RES CHIP 1608 1/10W J 330 Ω or	RRXA331YF002
		RES CHIP 1608 1/10W J 330 Ω	RRJ331WAL002
SWITCHES			
SW101		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW102		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW103		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW104		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW105		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW106		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003

IR SENSOR CBA

Ref. No.	Mark	Description	Part No.
		IR SENSOR CBA Consists of the following:	-----
CAPACITORS			
C101		CHIP CERAMIC CAP.(1608) B K 0.1 μ F/ 16V	CHD1CK30B104
C105		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/50V	CHD331EYA030
C106		CHIP CERAMIC CAP.(2125) F Z 10 μ F/ 10V	CHE1AZ30F106
C107		CHIP CERAMIC CAP.(2125) F Z 10 μ F/ 10V	CHE1AZ30F106
CONNECTOR			
CN101		WIRE ASSEMBLY 6PIN 6PIN/95MM/ AWG28	WX1A0C76-301
DIODES			
D101		LED(RED) LTL-1CHEE or	NPQZLTL1CHEE
		LED(RED) 1254IT	NPQZ0012541T
D102		LED(GREEN) LTL-1CHGE or	NPQZLTL1CHGE
		LED(GREEN) SLI-343M8CT32S	QPVZSL343M8S
RESISTORS			
R103		CHIP RES. 1/10W J 750 Ω or	RRXAJR5Z0751
		RES CHIP 1608 1/10W J 750 Ω or	RRXA751YF002
		RES CHIP 1608 1/10W J 750 Ω	RRJ751WAL002
R104		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R105		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R107		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
		RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R109		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
MISCELLANEOUS			
RS101		SENSOR REMOTE RECEIVER KSM- 2002TN2M-FU	USEJRS0KK009

Ref. No.	Description	Part No.
TU10	TUNER UNIT DTOA40FPL111A	UTNPSG0SM003

